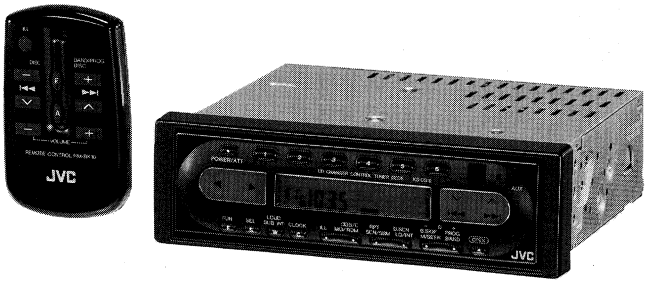
# JVC

# SERVICE MANUAL

## CD CHANGER CONTROL TUNER DECK

# KS-CG10 B/E/G/GE/GI



DIGIFINE

- This manual is a revised edition of G version (No. 49142)
- The SK/DK circuit is only for the G version.
- The DYNAS system has been modified from the intermediate system. Although the FM P.C. board and parts lists are presented, any FM adjustment method is not described. Until the FM adjustment method is published, therefore, the FM P.C. board should be replaced by the P.C. board ass'y.

## FEATURES

- Detachable Control Panel
- CD changer control
- Random Play/Repeat Play
- Disc Scan (KS-CG10 B/E/GI)
- High Sensitivity Tuner
- DYNAS* (Dynamic Selectivity & Sensitivity) Tuner
- AM/FM-Stereo PLL Synthesizer Tuner
- 24-Station Preset Tuning (FM-18, AM(MW/LW)-6)
- Scan/Seek/Manual Tuning
- Strong-station Sequential Memory (SSM)
- SK/DK Traffic Information Reception (KS-CG10 G/GE)
- U-Turn Auto-Reverse Logic Mechanism
- SA (Sen-Alloy) head
- Multi Music Scan**/Blank Skip/ Repeat
- Intro Scan (KS-CG10 B/E/GI)
- Dolby***B/C Noise Reduction
- Auto Tape Select Mechanism
- Loudness Button
- AUX Terminal (Front Panel)
- Subwoofer control
- Illumination Color Button
- Clock Button
- Line Input/Output Terminals
- Wireless remote control

* DYNAS is a trademark of H.u.C. Electronik GmbH.
** "Under Licence of Staar S.A., Brussels, Belgium".
*** Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

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No. 49142
March 1992

# 1 Instruction Book (Extract)

## SPECIFICATIONS

**RADIO SECTION**
Frequency Range
FM: 87.5 – 108.0MHz
AM: (MW) 522 – 1,620 kHz
(LW) 144 – 281 kHz (Manual)
144 – 279 kHz (Auto)
[FM Tuner]
Usable Sensitivity: 8.2 dBf (0.7 μV/75Ω)
50 dB Quieting Sensitivity: 16.3 dBf (1.8 μV/75Ω)
Alternate Channel Selectivity: (100 kHz) 35 dB
Frequency Response: 40 – 15,000 Hz
Stereo Separation : 30 dB
Capture Ratio: 1.5 dB
[MW Tuner]
Sensitivity: 20 μV
Selectivity: 35 dB
[LW Tuner]
Sensitivity: 50 μV

**CASSETTE DECK /AUDIO AMPLIFIER SECTION**
Wow & Flutter: 0.09 % (WRMS)
Fast Wind Time: 100 sec. (C-60)
Frequency Response (NR-OFF):
40 – 20,000 Hz (±3 dB) (Metal/$CrO_2$ tape)
40 – 18,000 Hz (±3 dB) (Normal tape)
Signal-to-Noise Ratio (Normal tape)
(Dolby C NR on): 68 dB
(Dolby B NR on): 60 dB
(Dolby NR off): 52 dB
Stereo Separation: 40 dB
Tone control Range
Bass: ±10 dB at 100Hz
Treble: ±10 dB at 10 kHz
Line-Input Level/Impedance:
0.5 V/20 kΩ
Line-Output Level/Impedance:
0.5 V/20 kΩ load (250 nWb/m)

**GENERAL**
Power Requirement
Operating Voltage: DC 14.4 V (11 V - 16 V Allowable)
Grounding System: Negative Ground
Dimensions (W x H x D)
Installation Size: 178 x 50 x 140 mm
Panel Size: 169 x 46 x 25 mm
Gross Weight: 2.1 kg (4.7 lbs)

*Design and specifications subject to change without notice.*

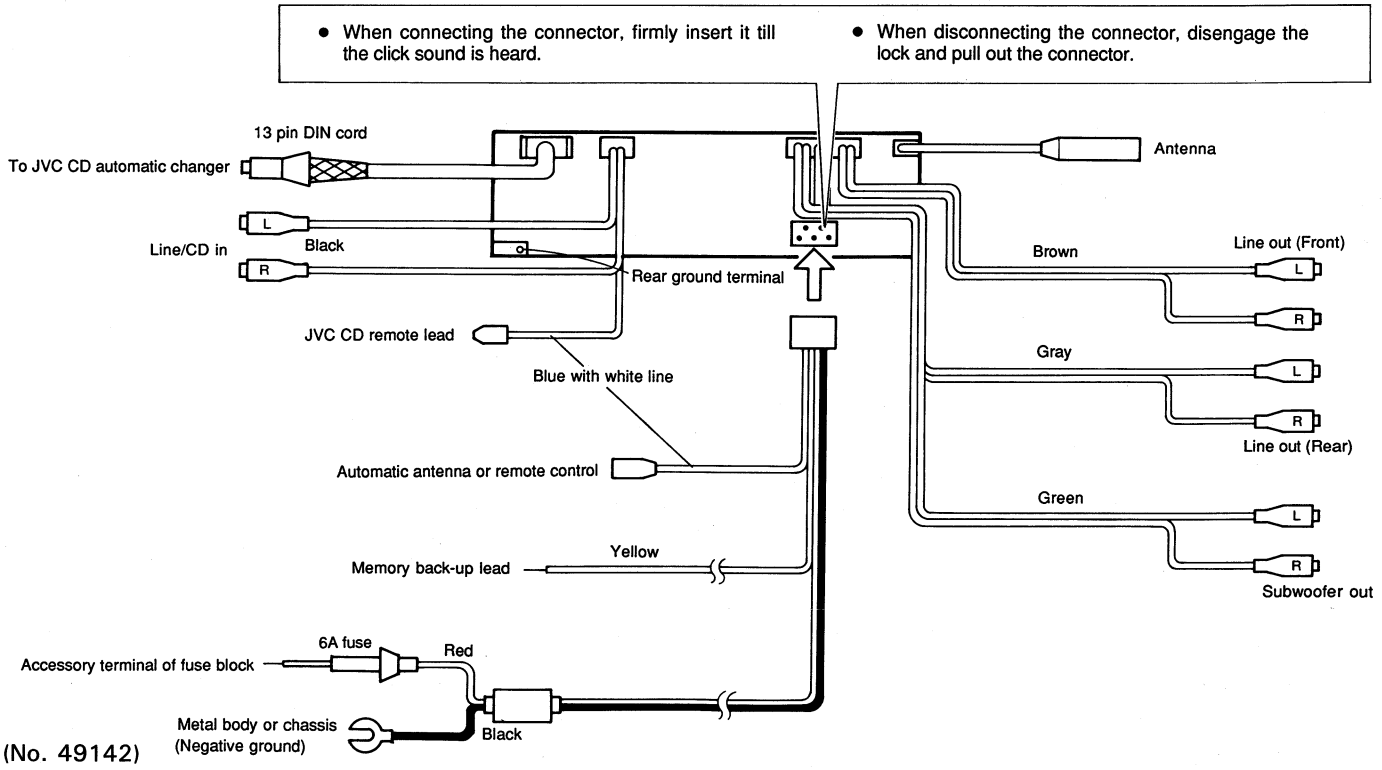
## ELECTRICAL CONNECTIONS

**To prevent short circuits, while making connections, keep the battery's negative terminal disconnected.**
We recommend that you make all electrical connections before installing the unit. If you're not sure how to correctly install this unit, have it installed by a qualified service technician.

**Note:**
This unit is designed for 12 volt DC, Negative Ground. If your vehicle does not have a 12 volt negative ground electrical system you need a voltage inverter which can be bought from a JVC "IN-CAR ENTERTAINMENT" dealer.

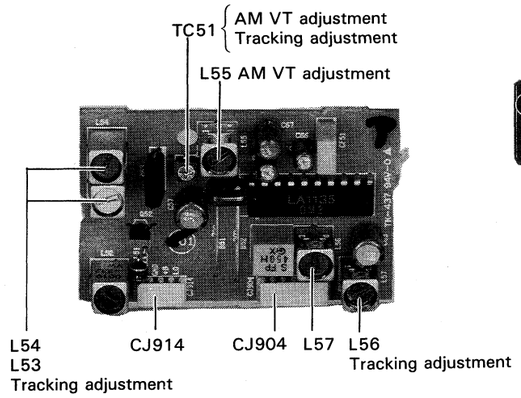
- Be sure to ground this unit to the car's chassis.

### A. Connections

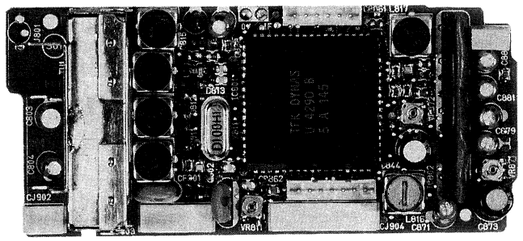


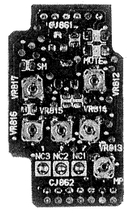
■ **Layout drawing showing place of adjustments**

● **AM PCB**

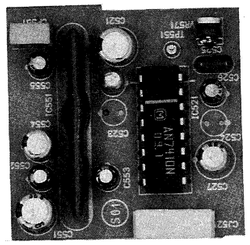


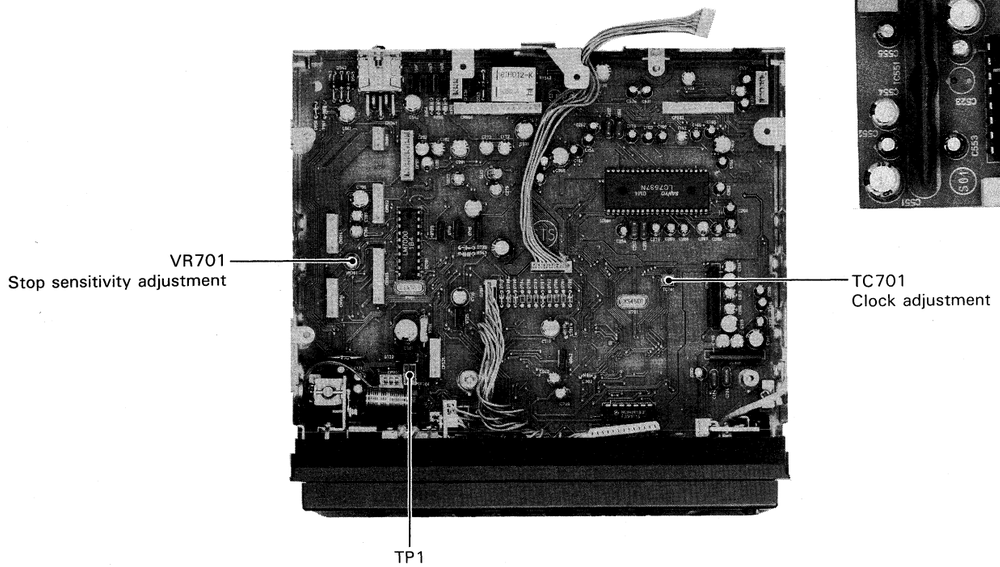

● **FM PCB**





● **SK/DK PCB**





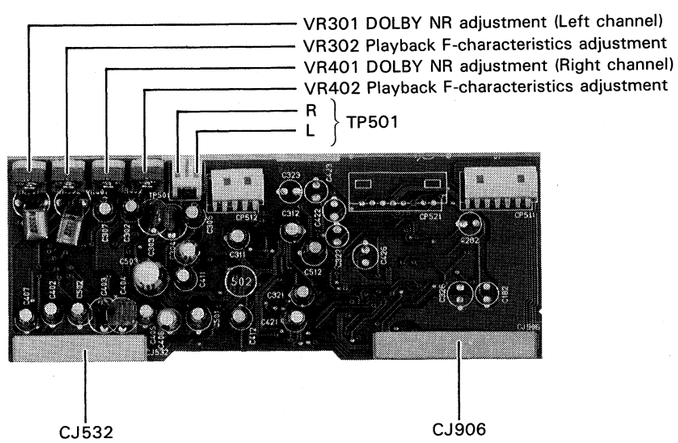




**Fig. 4-2**

# 5 Block Diagram

■ **Block Diagram of Signal (G version type)**

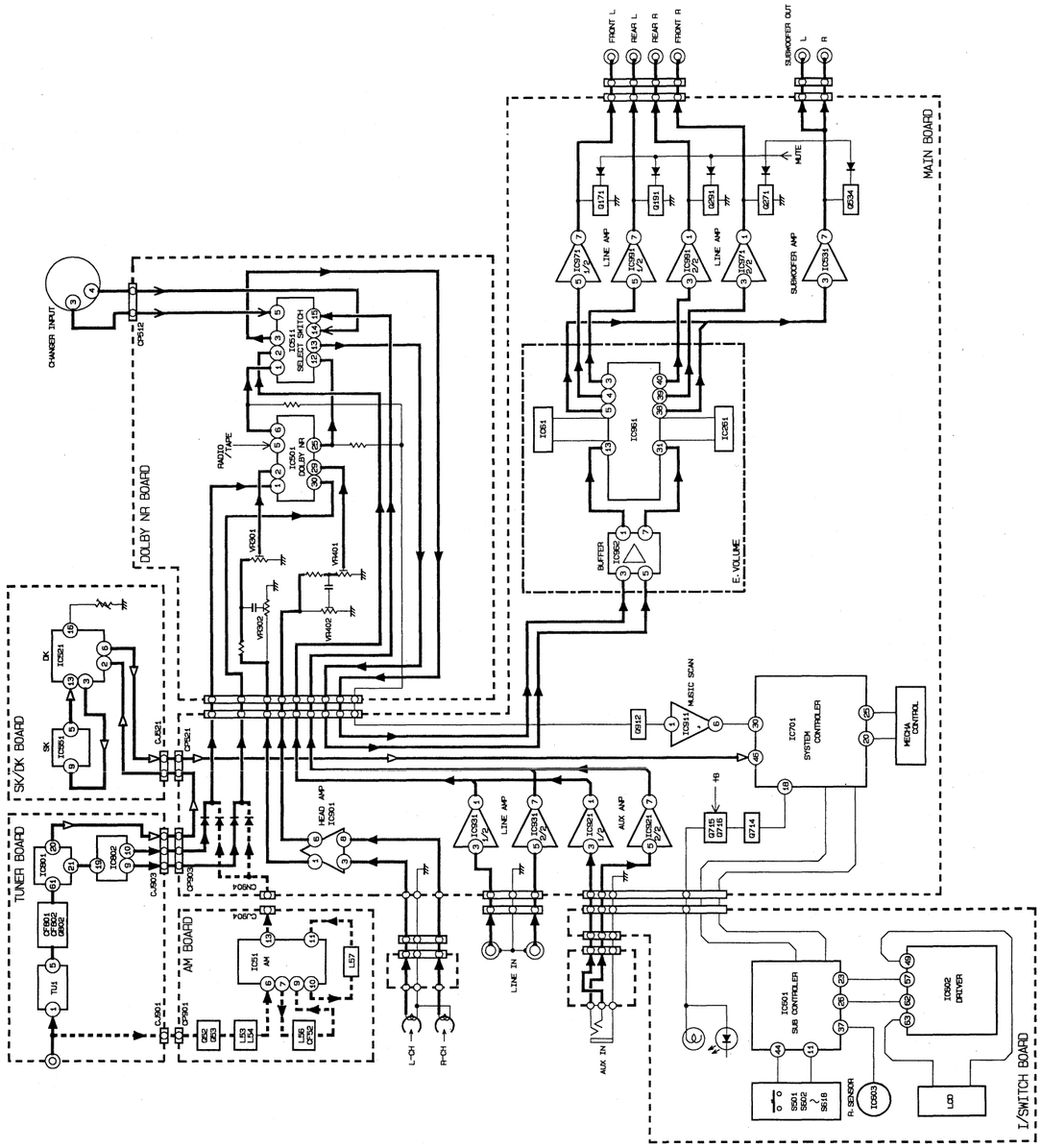
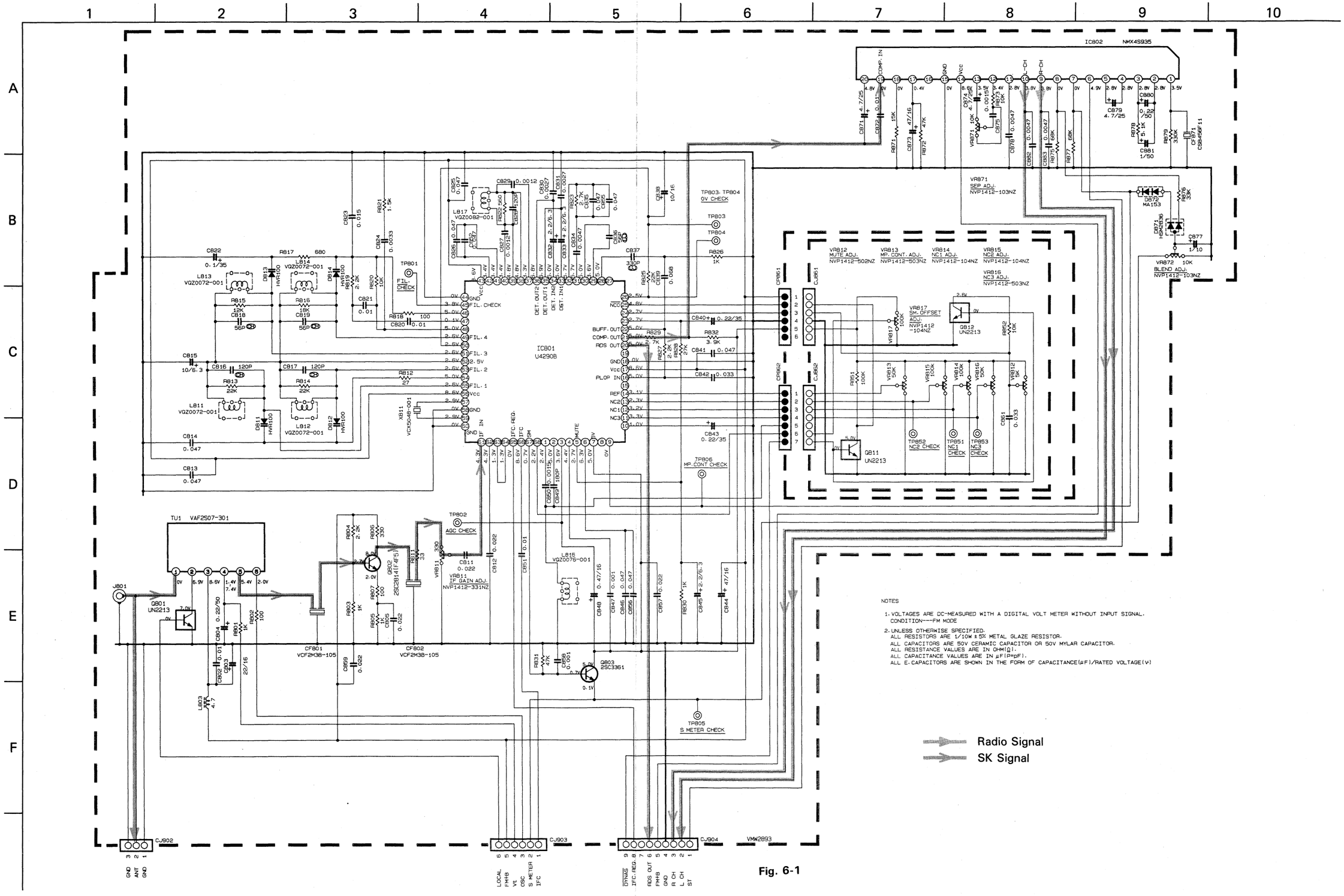



**Fig. 5-1**

# 6 Standard Schematic Diagram

■ Tuner Circuit 1/2




NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION---FM MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V)

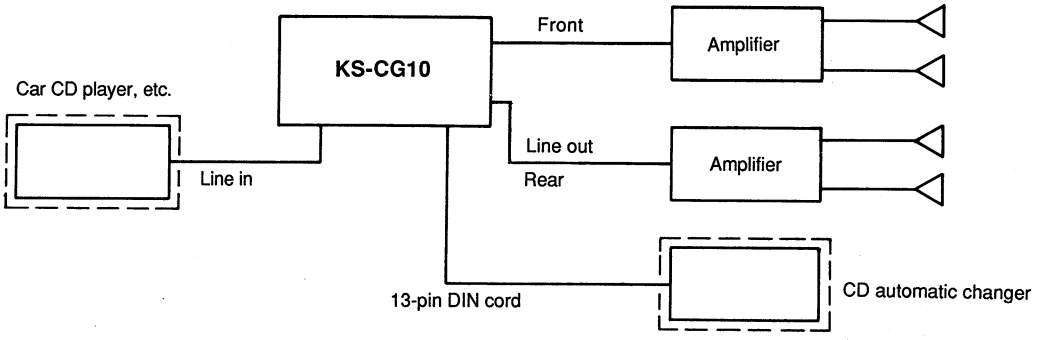
Fig. 6-1

## B. Line terminal connections

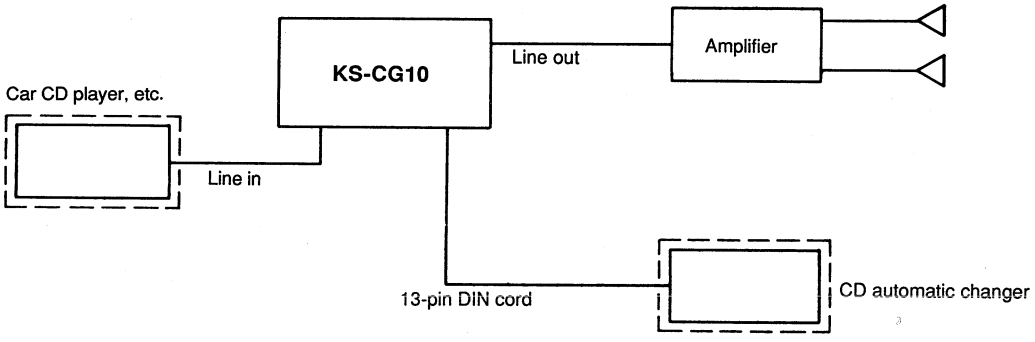
Since this unit has line-input/output terminals, a CD player, amplifier and other equipment can be used to upgrade your car stereo system.

- When connecting a JVC CD player, connect this unit's line/CD-in terminals and also connect both CD remote leads. Sound from the CD player is automatically selected having priority over other sources with these connections.
- When connecting an amplifier, connect this unit's line-out terminal to the amplifier's line-in terminals.
- When a unit without a remote wire is connected to the line-in terminals of the KS-CG10, set to the AUX mode using the FUNC button.
- When the KS-CG10 is connected to a JVC Digital Acoustics Processor KS-DP100, set the VOLUME control of KS-CG10 to maximum.

### 1. 2-amplifier connection

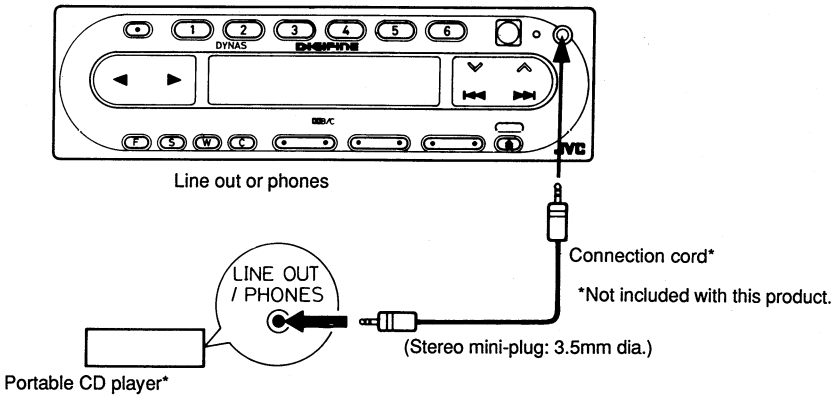



### 2. Single amplifier connection (Front or Rear)




## C. AUX terminal connection

A commercially available portable CD player, etc., can be connected to the AUX terminal in the front panel. Set to the AUX mode using the FUNC button.




**Cautions:**

- When playing a car CD player, etc. connected to Line/CD in terminals and a portable CD player, etc. connected to the AUX terminal at the same time, sound from both sources will be heard simultaneously.
- Disconnect the portable CD player when listening to the radio since noise may occur.
- Do not leave the portable CD player in the car when you leave the car.

### D. Subwoofer out terminal connections

Since this unit has subwoofer out terminals, an amplifier and subwoofer can be used to upgrade your car stereo system.

- When using a subwoofer, the BASS control of the KS-CG10 should be set to its center position.

### E. Power aerial (Automatic antenna) connections

This set is equipped for the automatic extension and retraction of a power aerial when the power switch is turned on and off. The connection from the audio unit (REMOTE blue with white line lead) is via a separate relay to the fully automatic aerial motor unit incorporating a built-in terminal circuit.

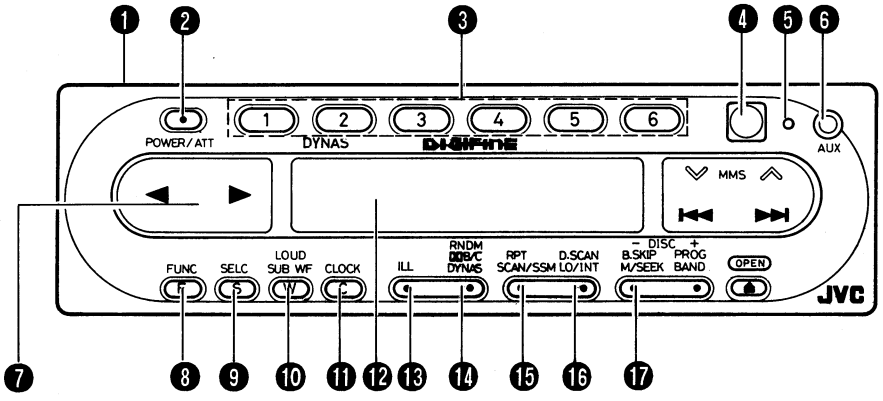
### F. Memory back-up lead

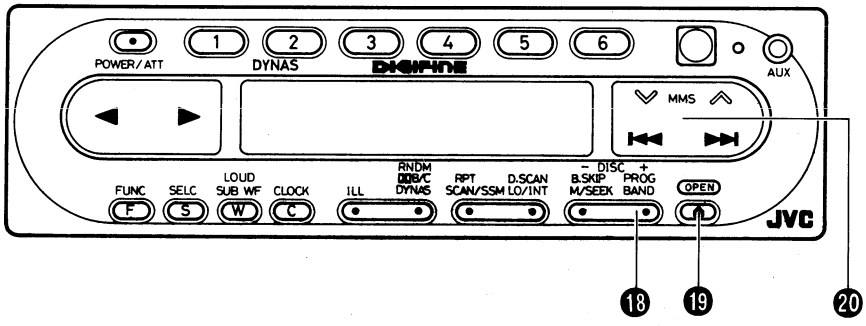
Connect this lead to a position where live power is supplied even when the ignition key is taken out.

### G. Fader control

- **When used in a 4-speaker system**
  Use this control to balance the volume levels of the front and rear speakers. Set to the fader mode using the SELC button and press the ► side of the level control button to decrease the volume levels of the rear speakers and press the ◄ side to decrease those of the front speakers. The overall volume level can be adjusted in the volume mode. (See page 22.)
- **When used in a 2-speaker system**
  Set this control to the center position.

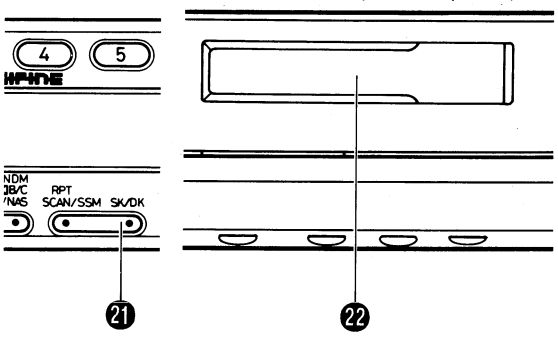
## LOCATION OF CONTROLS




(KS-CG10 B/E/GI)

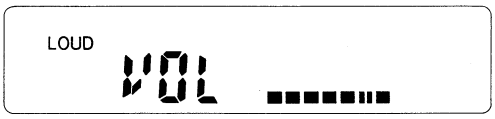
(When the control panel is opened)




(KS-CG10 G/GE)

1. Control panel
2. POWER/Attenuator (ATT) switch
   POWER: Press to turn the power on. Depress for more than 1 second to turn the power off.
   ATT: When this button is pressed while the unit is operating, the volume drops and the level indicator blinks. Press again to return to the original volume.
3. Preset station buttons (No. 1-No. 6)
   Music scan preset buttons (No. 1-No. 6)
   Disc number buttons (No. 1-No. 6)
4. Remote sensor section
5. Microcomputer reset button
6. AUX jack
7. Level control buttons
   Use to adjust the volume, bass, treble, fader and balance. (See page 22.)
8. Function (FUNC) button
   Used to select the source.
9. Electronic control mode select (SELC) button
10. Loudness (LOUD) button
    Subwoofer (SUB WF) button
11. CLOCK button
12. Display window
13. Illumination color (ILL) button
14. Random (RNDM) button
    Dolby B/C (DD B/C) button
    DYNAS button
15. Repeat (RPT) button
    Scan (SCAN) button
    SSM button
16. Disc scan (D. SCAN) button
    Local (LO) button
    Intro (INT) button
    (KS-CG10 B/E/GI)
17. Disc select (–) button
    Blank Skip (B. SKIP) button
    Manual (M)/SEEK button
18. Disc select (+) button
    Program (PROG) button
    BAND button
19. Control panel open (OPEN) button
    Eject (⏏) button
20. Tuning/Time adjustment/Fast wind/Skip (search) button
    Down frequency/Hour adjustment (⌄)/Rewind (⏮)
    UP frequency/Minute adjustment (⌃)/Fast forward (⏭)
21. SK/DK button (KS-CG10 G/GE)
22. Cassette loading slot

㉓

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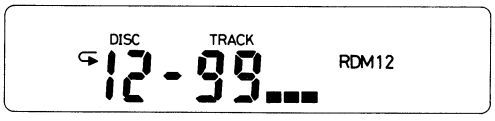



㉓ Indicators (for audio control section)
Volume (VOL)
BASS (bASS)
Treble (TRE)
Fader (FAd)
Balance (bAL)
Subwoofer (SUb)
Loudness (LOUD)
Level indicator

㉔ Indicators (for tuner section)
Band (F1-F2-F3-A)
Preset Station
Radio frequency
SEEK
SK/DK (KS-CG10 G/GE)
Local (LO) (KS-CG10 B/E/GI)
FM Stereo (ST)
**DYNAS**

㉕ Indicators (for tape deck section)
Tape direction (◄►)
Dolby B ( DD B ) NR
Dolby C ( DD C ) NR
Blank skip (B. SKIP)
Repeat ( ⟲ )
Music scan preset (MS)

㉖ Indicators (for CD changer control/other sections)
Repeat ( ⟲ )
Disc number
Track number
DISC
TRACK
RDM 1
RDM 2
---
EEEE
HHHH
Time

## REMOTE CONTROL UNIT

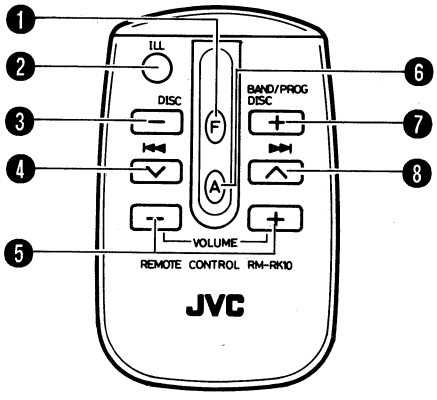
- Installing batteries in the remote control unit.

### Using the remote control unit

To use the remote control unit, point it at the remote sensor and press the buttons gently and firmly.
Do not expose the remote sensor to strong light (direct sunlight or artificial lighting) and make sure that there are no obstacles between the remote sensor and the remote control unit.

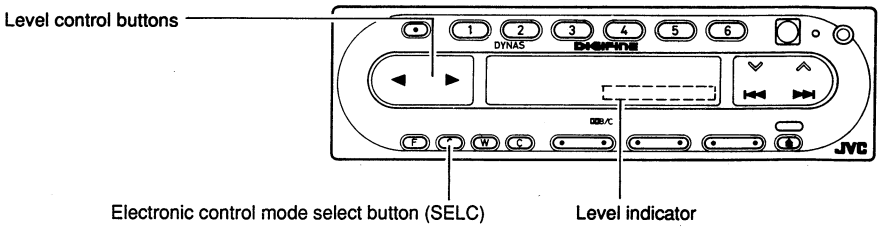
**The following operations can be performed using the remote control unit.**

- Check the functions of the operation buttons carefully and operate them correctly.




❶ Function (F) button
Used to select the source.
❷ Illumination color (ILL) button
❸ DISC select (–) button
❹ Seek tuning/Fast wind/Skip (Search) button
Down seek ( ⌄ )/Rewind (⏮)
❺ VOLUME level control buttons (–/+)
❻ Attenuator (A) button
❼ BAND/Program (PROG)/DISC select (+) button
❽ Seek tuning/Fast wind/Skip (Search) button
Up seek ( ⌃ )/Fast forward (⏭)

## Audio level control




| Electronic control mode | ◀ | ▶ |
|---|---|---|
| bASS Bass | bASS Decreases | bASS Boosts |
| TRE Treble | TRE Decreases | TRE Boosts |
| FAd Fader | FAd Rear | FAd Front |
| bAL Balance | bAL Left | bAL Right |
| VOL Volume | VOL Decreases | VOL Increases |

- When the power is turned on, the unit is set to the volume mode. The modes are changed by pressing the SELC button. When more than 5 seconds have elapsed after the level is adjusted in any mode, it will return to the volume mode automatically.
- Even when the power is turned off, the current settings are stored in memory.

* As for the previous level control, only the volume control can be adjusted by remote control.

### LOUDNESS BUTTON

At low volumes, the human ear is less sensitive to high and low frequencies. When the volume is low, press the LOUD button for more than 1 second to boost the sound at high and low frequencies to output well-balanced sound.

### SUBWOOFER BUTTON

To control the signal level output to the subwoofer out terminal when a subwoofer is connected. Each time the SUB WF button is pressed, the output level changes from low level to high level, off, then back to low level.

### ILLUMINATION COLOR BUTTON

To match the color of this unit's display with that of the instrument panel, you can choose between two colors – amber and green.

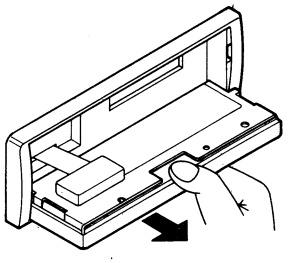
**To detach the control panel**

① Press the OPEN button to open the control panel.
② Pull the control panel out of the main unit as shown in the figure below.
- After detaching the control panel, put it in the case provided for protection.

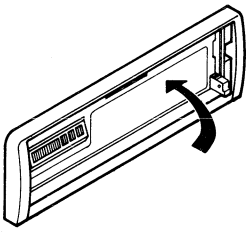
③ After removing the control panel, reset the control panel holder to its original position.

①

②

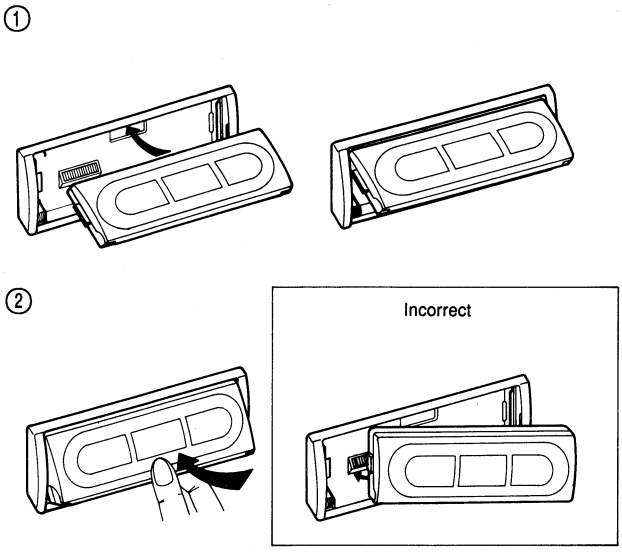


③



**To attach the control panel**

① Insert the top of the control panel under the lip at the top of the holder.
② Press the lower side of the control panel to fix it.

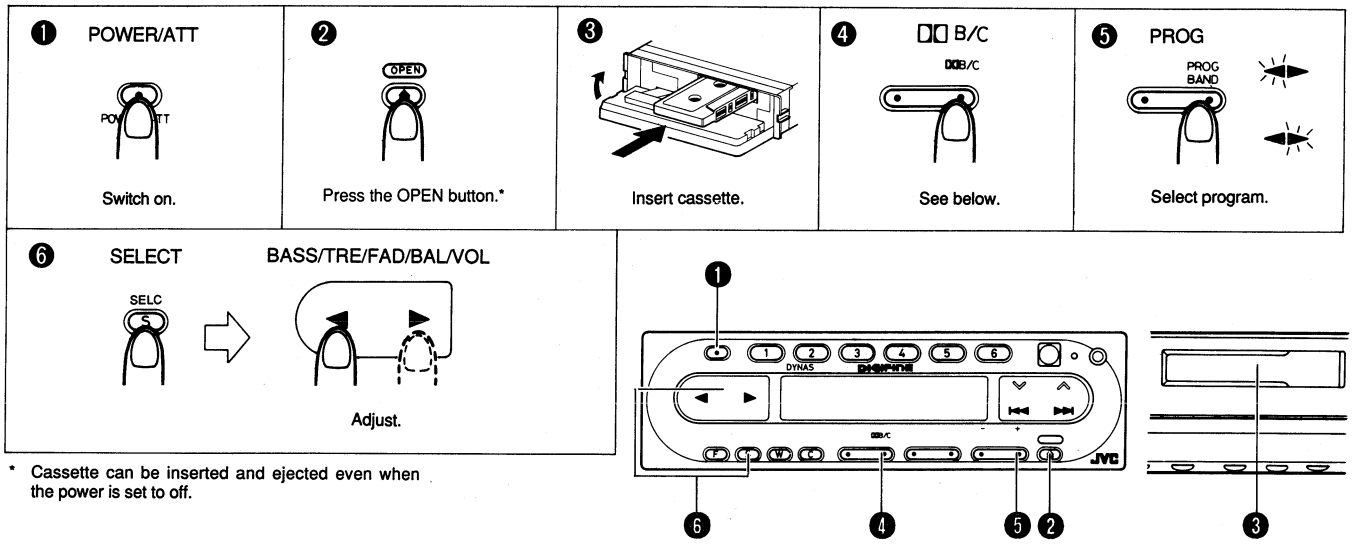



**Notes:**

1. Press the OPEN button momentarily; the control panel opens and the cassette will be ejected. If the OPEN button is pressed for more than 1 second, only the control panel opens and the cassette will not be ejected.
2. Set the power switch of the KS-CG10 to off before detaching the control panel. If the ignition is switched off, the control panel cannot be detached.
3. Be careful not to damage the connector terminals when attaching/detaching the control panel or while the control panel is detached.

## TAPE OPERATION

**Operate in the order shown.**




* Cassette can be inserted and ejected even when the power is set to off.

### DOLBY NR BUTTON

Each time the DD B/C button is pressed, the Dolby NR System will be changed from Dolby B NR to Dolby C NR to Dolby NR off, in that order.

## IGNITION KEY-OFF RELEASE (KEY-ON PLAY) MECHANISM

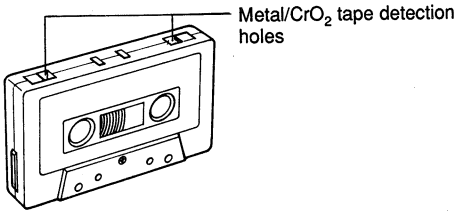
When the ignition key is turned off, this "key-off release" mechanism will automatically release the tape from the magnetic head. This will set the mechanism to the standby mode. When the key is turned on, it will automatically return to the playback mode.

## AUTO TAPE SELECT MECHANISM

This unit has an Auto Tape Select mechanism which distinguishes between different types of tape. When the type of tape has been detected, equalization is set to suit for the tape.

- Cassettes with detection holes:
  Metal tape (EQ: 70 $\mu$s)
  $CrO_2$ (chrome) tape (EQ: 70 $\mu$s)
- Cassettes without detection holes:
  Normal tape (EQ: 120 $\mu$s)

Some earlier types of metal and $CrO_2$ (chrome) tapes may not be provided with detection holes. Avoid using such tapes, since correct equalization characteristics cannot be obtained. Also do not use ferrichrome tapes whose characteristics do not match this unit.




## TO FAST FORWARD AND REWIND THE TAPE

Press the ▶▶I button to fast forward the side being played back; when the end of the tape is detected, the tape is reversed and played back from the beginning of the other side. Press the I◀◀ button to rewind the tape. When the tape is rewound to the beginning, it is played back again. Press the PROG button to start play from the current position during the fast forward or rewind mode.

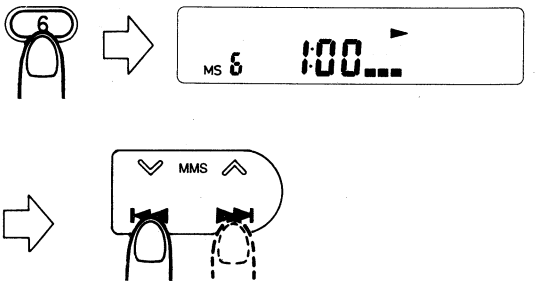
## AUTO-REVERSE MECHANISM

When the tape reaches the end of one side, this mechanism automatically switches over to play back the other side. To listen to the other side while playing one side, press the PROG button. The change in the tape transport direction can be checked from the Tape Direction indicators.

## MULTI MUSIC SCAN OPERATION

This function enables you to play back automatically from the beginning of the required tune by skipping over a maximum of 6 tunes in the forward or reverse direction.

- **Example (to skip over 6 tunes)**




① Load the cassette and press Music Scan Preset button (number 6).
② Press the I◀◀ or ▶▶I button.
- When the beginning of the required tune is detected, the indication number of the selected tune goes out and the tape starts playback.

**Note:**
During scanning, when the tape is rewound to the beginning in the rewind mode, it is played back from the beginning of this side, when the tape reaches the end in the fast-forward mode, it is reversed and played back from the beginning of the other side.

## INTRO SCAN (KS-CG10 B/E/GI)

Use Intro Scan to quickly locate the required tune.

- When the INT button is pressed during playback, the unit enters the fast-forward scan mode and each time a tune is located, the beginning of each tune is played back for approx. 15 seconds. Press the INT button when the required tune is located. Intro Scan operates continuously for both sides of the tape.

**Note:**
When Intro Scan is performed from the beginning of the tape or in the middle of a tune, the first tune will be skipped and the Intro Scan operation starts from the next tune.

## BLANK SKIP

During playback, when there is a blank section of more than 15 seconds between tunes with this button set to on, the tape is fast forwarded to the beginning of the next tune. This operation is also used with auto reverse to skip to the first tune on the other side after the end of the last tune on one side.

## REPEAT FUNCTION

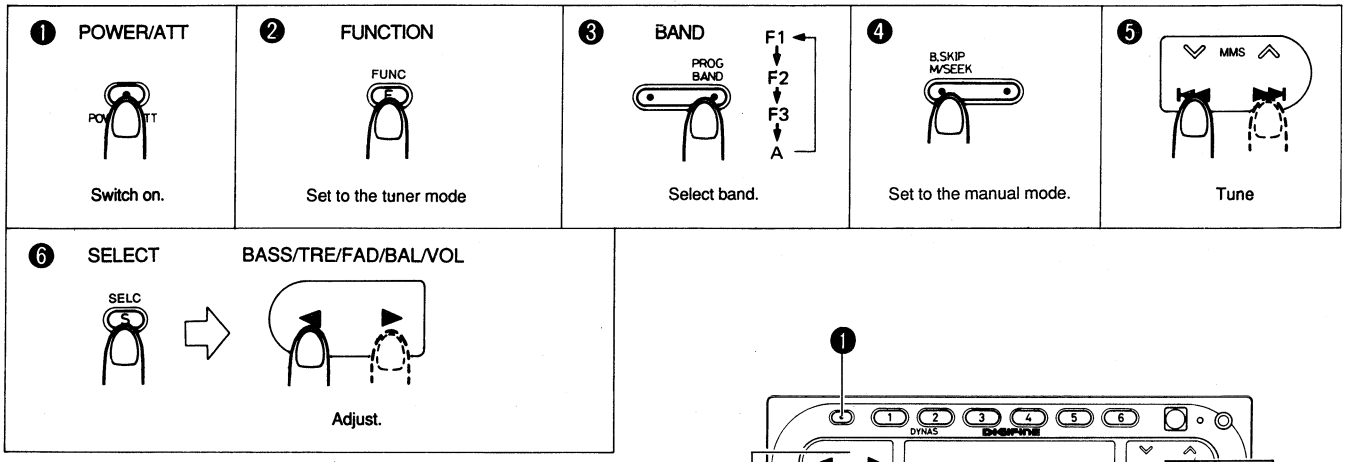
Push the RPT button while a tune you would like to hear over again is being played back. When the tape reaches the end of the tune, the tape is automatically rewound to the beginning of that tune and playback resumes from there. This operation will be repeated till the RPT button is pushed again.

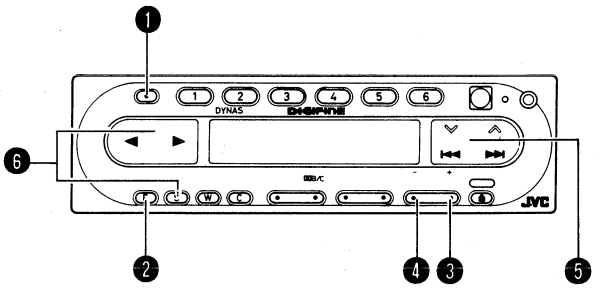
**Note:**
In the following cases, the Multi Music Scan, Intro Scan, Blank Skip and Repeat function mechanisms may not operate correctly. This is not a malfunction; use the mechanisms to accommodate the program material and situation.

- Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions during tunes.
- Tapes with tunes recorded at low recording levels.
- Tapes with short non-recorded sections.
- Tapes with high level noise or hum between tunes.
- The Dolby B/C NR button settings do not match the tape's NR mode.

## RADIO OPERATION

**Operate in the order shown.**

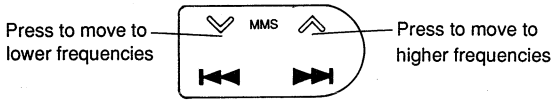



## MANUAL TUNING

Set to the manual mode using the M/SEEK button. When SEEK is not shown in the display, the unit is in the manual mode. Then, by pressing the Tuning button, you can move up and down the frequency band. The frequency band is scanned as long as either side of this button is pressed. You can step through the frequency in 50 kHz units for FM, 9 kHz units for MW and 1 kHz unit for LW.
In AM operation, the frequency moves continuously from the MW (522 – 1,620 kHz) to the LW (144 – 281 kHz) band and vice versa.

- Manual tuning cannot be performed using remote control.




## SEEK TUNING

Set the seek mode using the M/SEEK button; the SEEK indicator will light. Then, by pressing the ⌃ or ⌄ button the unit tunes to the adjacent station with a higher or lower frequency.
In AM operation, the frequency moves continuously from the MW to the LW band and vice versa.

- Seek tuning can be performed using remote control.

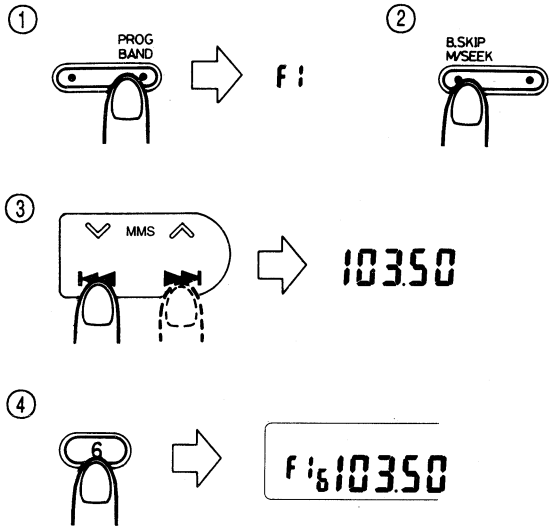
## SCAN BUTTON TUNING

Use the SCAN button for automatic scanning of the FM and AM (MW/LW) frequency bands. When this button is pressed, each station is monitored for approx. 5 seconds, and the frequency flashes during this time. After 5 seconds have elapsed, the frequency is advanced to the next station which in turn is monitored for 5 seconds. To stop scanning, press the SCAN button again.

## PRESET BUTTON TUNING

6 stations in each band (F1, F2, F3 and A(MW/LW)) can be preset as follows;

- **Example (when presetting Preset Station button "6" to FM station at 103.5 MHz)**




① Select the F1 band using the BAND button.
② Set to the manual mode.
③ Tune to the desired station.
④ Press Preset Station button "6" for more than 2 sec. (When "6" flashes in the Preset Station display, the station is preset.)

- Repeat the above procedure for each of the other 5 stations using a different Preset Station button each time.
- Follow the above procedure for the other bands (F2, F3 and A(MW/LW)).

**Notes:**

- The previous preset station is erased when a station is newly preset because the new station is stored in memory.
- The preset station is erased when the power supply to the memory circuit is interrupted during battery replacement, etc. When this occurs, preset the station again.

## STRONG-STATION SEQUENTIAL MEMORY (SSM)

This function searches for FM and AM (MW/LW) stations broadcasting strong signals; the 6 strongest stations are held in memory in the order of increasing frequency and can be recalled with preset buttons 1 – 6.

(Procedure)

① Press the SSM button for more than 3 seconds.
② The 6 strongest signals in the band to which you are listening (F1, F2, F3 and A (MW/LW)) will be searched and selected automatically. These 6 stations are preset in preset buttons (1 – 6) in the order of increasing frequency. (During this operation "– – – –" lights in the display.)
The receiver then tunes to the broadcast stored in preset button "1" automatically.

**Note:**
Previously preset stations are cancelled automatically when SSM is used.

## MONO BUTTON

When listening to FM, set the MO button to stereo or mono.

**Note:**
Set to mono when a stereo FM broadcast is too noisy and cannot be heard satisfactorily.

## LOCAL BUTTON (KS-CG10 B/E/GI)

Set the LO button as desired.

- Set to off during normal use.
- Set to on when only strong signal stations are required in scan tuning and seek tuning.

## FM PULSE NOISE SUPPRESSOR

This unit has built-in circuitry to effectively eliminate engine noise picked up by the antenna, etc. in the form of FM pulses, for more favorable FM reception.

## CD AUTOMATIC CHANGER OPERATION

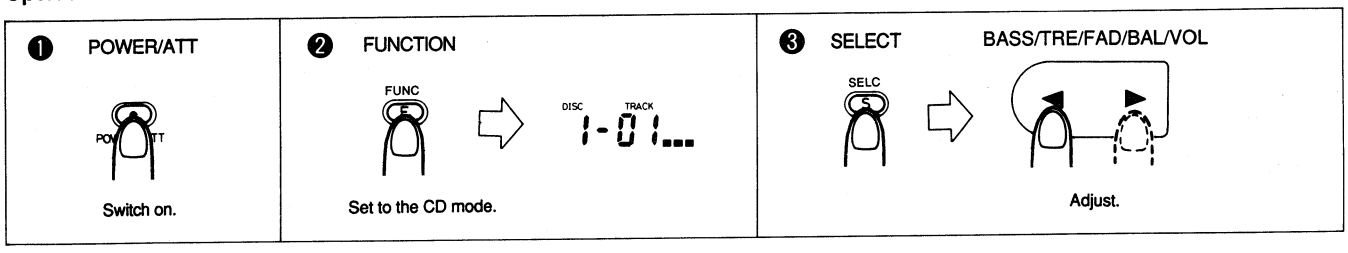
### PRECAUTIONS

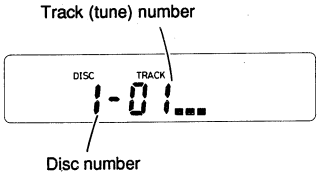
- This unit is for the control of the JVC Compact Disc Automatic Changer (to be purchased separately).
- For use, refer to the instructions of the CD automatic changer.
- When a cassette tape is loaded while listening to a CD, CD playback is automatically switched to cassette playback.
- When there is no disc in the disc magazine of the CD automatic changer or when the disc is inserted into the tray upside down, the "---" blinks in the KS-CG10 display. In such a case, remove the disc magazine from the CD changer and set the discs correctly.
- The CD Automatic Changer stops automatically when the ambient temperature rises above a certain level; "HHHH" will be shown in the display of the KS-CG10. If this happens, leave the CD changer for a while, until the temperature drops before using it again. During this time, you can listen to the tuner, etc. by switching the source using the Function (FUNC) button of the KS-CG10.
- When "EEEE" is shown in the display of the KS-CG10, confirm that the cord is connected and press the RESET button of the CD changer.

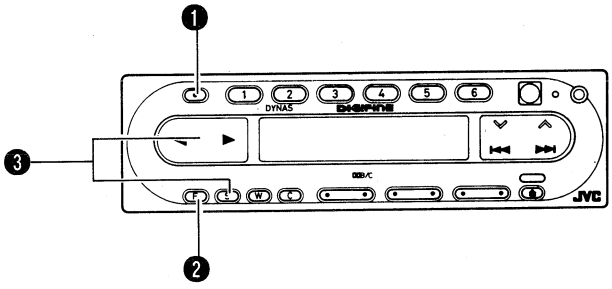
### PLAYING COMPACT DISCS

**To play all tunes**

**Operate in the order shown.**



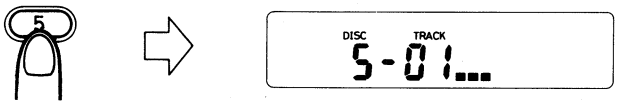




- After the last tune of the first disc has been played, the disc on the next tray automatically starts from its beginning. If there is no disc on the tray, the display shows the "---" then the following disc is played.

## DISC SELECTION

- **Direct Disc Selection**
  Press the disc No. button (1 – 6) corresponding to the No. of the required disc. CD play starts when the disc No. and track No. indicator light.
  Example : (to designate Disc 5)



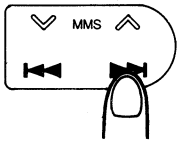

- **Disc select button**
  Press the disc select button (+/–) to select the required disc.

Example: (when the Disc 3 is currently playing...)
- Each time the (+) side is pressed, the 4th, 5th, 6th and 1st disc ... will be selected in sequence.
- Each time the (–) side is pressed, the 2nd, 1st and 6th disc ... will be selected in sequence (when this unit is connected to the XL-MK1200, disc selection is performed from the 1st disc to 12th disc to 11th disc ...).

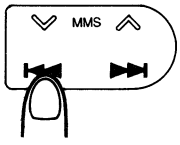
## SKIP PLAYBACK

- During playback, when skipping to the beginning of the next tune or the tune being played back or the previous tune, the beginning of the tune is easily located and the playback starts from there.

**To listen to the next tune ...**
Press the ▶▶| button once to skip to the beginning of the next tune.



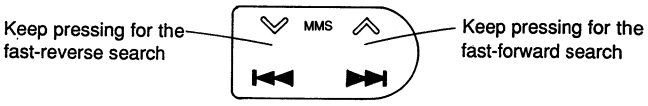

**To listen to the previous tune ...**
Press the |◀◀ button to skip to the beginning of the tune being played back and press again to skip to the previous tune.




* When the disc select and skip operations are performed in sequence, the required tune from the required disc can be selected.

## SEARCH PLAYBACK (to locate the required position on the disc)

- The required position can be located using fast-foward or reverse search during playback.
- Hold down the button and the search playback starts slowly and then gradually increases speed.
- Since a small sound (about one quarter of playback level) is audible in both modes, release the button when the required position is located while monitoring the sound.




## REPEAT PLAYBACK

When the RPT button is pressed, the tune being played is repeated. Press this button again to cancel repeat playback. The ⟲ indication goes out and all-tune playback is resumed.
If this unit is connected to the JVC CD changer XL-MG600, it is possible to repeat a single tune or all tunes of the current disc. (The ⟲ indication blinks during all-tune repeat operation.)

## DISC SCAN (D. SCAN) (KS-CG10 B/E/GI)

When the D. SCAN button is pressed, the first 10 seconds of the first tune on every disc in the magazine are played back sequentially. When the required disc is located, press this button again and normal playback will start.

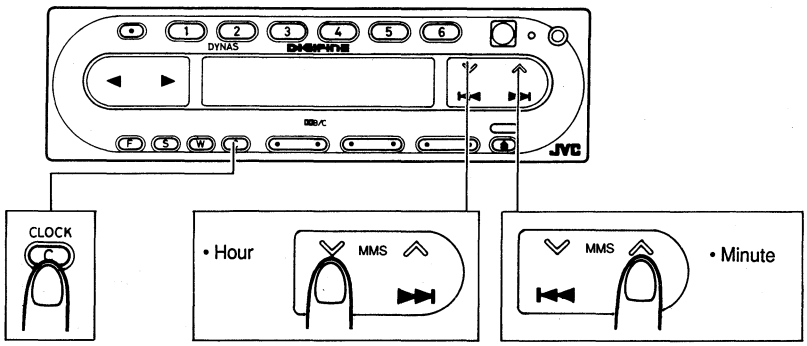
## RANDOM PLAYBACK

Each time the RNDM button is pressed, the mode is changed from the RDM1 mode to the RDM2 mode to the clear mode, in this order.
RDM1: Plays all tunes on the disc currently being played back once, in random order then subsequent discs, in order.
RDM2: Randomly select a CD other than the disc being played and a tune is selected at random and played.

## DIGITAL CLOCK DISPLAY

To check the time, press the CLOCK button and the time will be displayed. When the radio or a CD is operated in the time mode, the display will switch to frequency or disc number and track number and then, after a short time, it will return to the time mode. To cancel the time mode, press the CLOCK button again.

- **To adjust the time**
  When the display is in the time mode, while keeping the CLOCK button pressed, press the Hour adjustment button ( ⌄ ) to adjust the "hours" and press the Minute adjustment button ( ⌃ ) to adjust the "minutes."



# 2 Location of Main Parts

## ■ Deck Unit

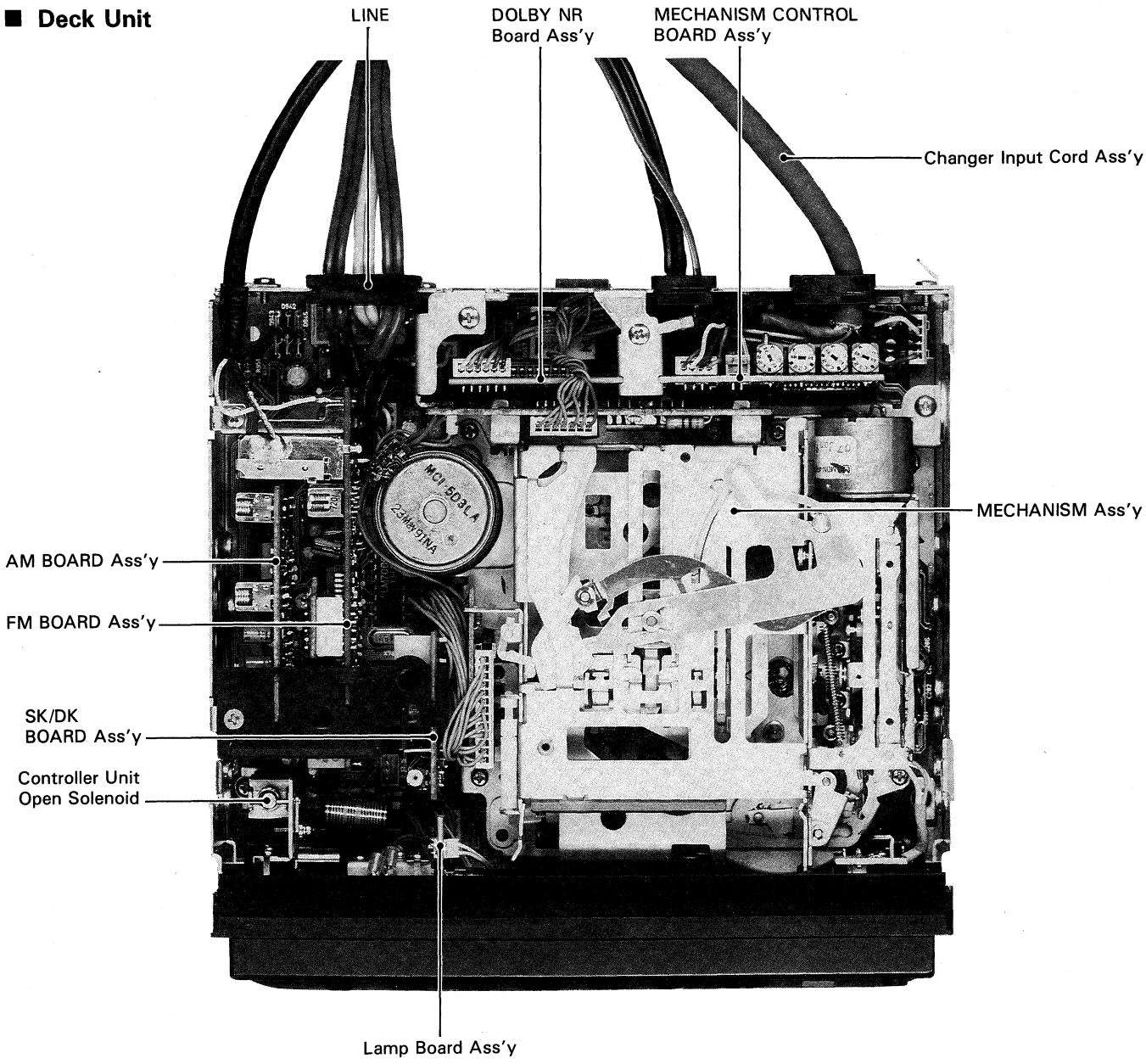
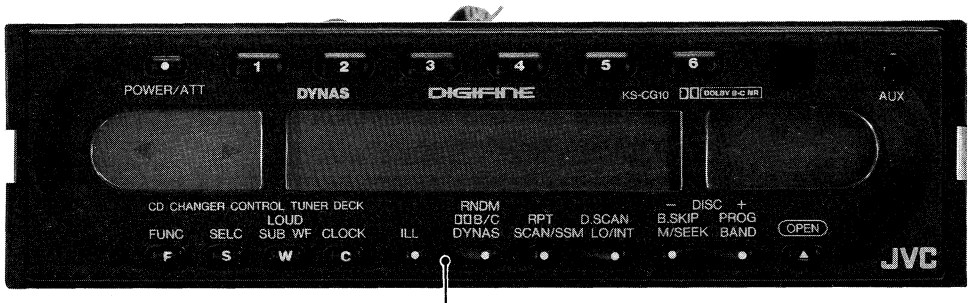



Fig. 2-1

## ■ Controller Unit




Controller Unit

Fig. 2-2

Controller Unit Parts No.

| | |
|---|---|
| KS-P10E | Controller unit E/B/GI |
| KS-P10G | Controller unit G/GE |

# 3 Removal of Main Parts

## <Outer Components>

### ■ Controller and controller holder (Fig. 3-1 ~ 3-3)

1. Remove the two set screws ① in the upper cover.
2. Insert a screwdriver between the upper cover and the chassis to remove it from section B.
3. Depress solenoid [1] and lower the controller holder forward as indicated at [2] in the figure.
4. Remove the screw ② that secures the controller and remove it by pulling it in the direction indicated by the arrow at [3] in the figure.
5. Remove the two set screws ③ in the controller holder, pull it out and disconnect the CN913, CP703, CN703 and CP702 connectors which connect it to the main PCB.

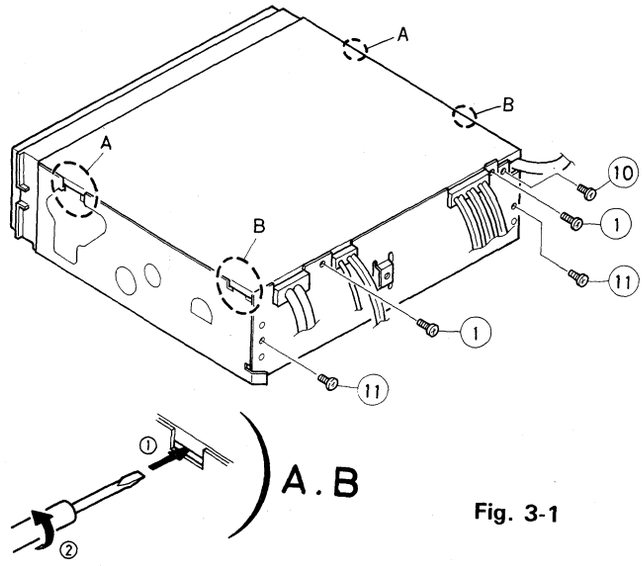



Fig. 3-1

### ■ Cassette Mechanism Assembly (Fig. 3-4)

1. Remove the upper cover.
2. Disconnect connectors CP801 and CP852. (Mechanism control PCB)
   These connectors are easily removed by inserting a straight-bladed screwdriver between the connector and the plug.
3. Remove the four set screws ⑤ ⑥ in the mechanism assembly.
4. Remove the head wire connector (CP802). (Raise the mechanism assembly slightly to remove it.)

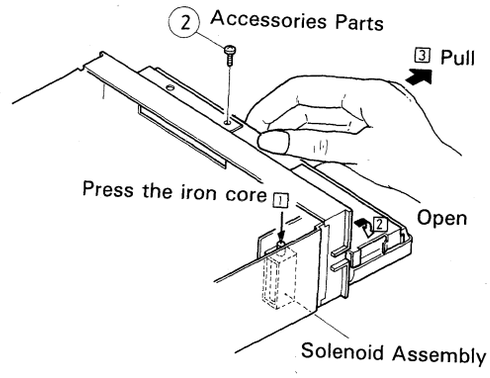



Fig. 3-2

### ■ Dolby NR PCB Assembly (Fig. 3-5)

1. Remove the upper cover.
2. Remove the set screw ⑦ in the Dolby PCB holder.
3. Pull out the PCB. (Disconnect the cord connector at this time.)
4. Disconnect the graphics equalizer and changer input cord connector if required.

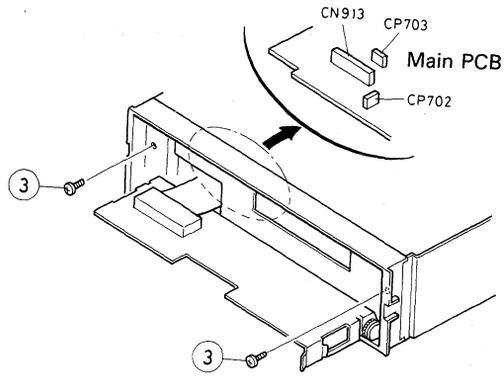



Fig. 3-3

## ■ FM/AM PCB Assembly (Fig. 3-5 and 3-1)

1. Remove the top cover.
2. Remove the set screw ⑧ in the PCB holder.
3. Raise the AM PCB to remove it.
4. Remove the set screw ⑨ in the FM tuner pack shield plate.
5. If required, remove the set screw ⑩ in the rear bracket to remove the antenna cord.

## ■ Line Output Cord

1. Remove the top cover.
2. Remove the mechanism assembly.
3. Remove the DOLBY NR PCB.
4. Disconnect line output cords CP971 and CP531 from the main PCB.
   (The use of a straight-bladed screwdriver facilitates this operation.)

## ■ CD Line/Remote Input

1. Remove the top cover.
2. Remove the DOLBY NR PCB.
3. Remove the bush of the CD cord/remote cord and disconnect CP931 from the main PCB.

## ■ Main PCB Assembly (Fig. 3-4 and 3-1)

1. Remove the top cover.
2. Remove the controller holder.
3. Remove the FM/AM PCB assembly.
4. Remove the four screws ( ⑥ and ④ ) to remove the mechanism assembly.
5. Remove the two set screws ⑪ in the rear bracket.
6. Remove the two set screws at the top of the main PCB.
7. Remove the main PCB with the rear bracket attached.

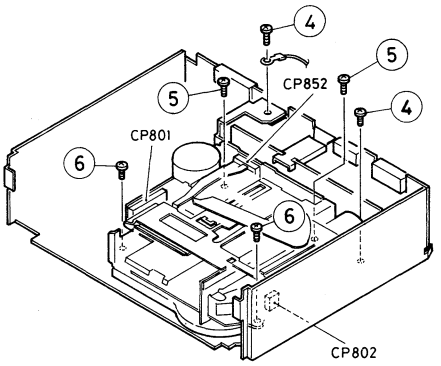



Fig. 3-4

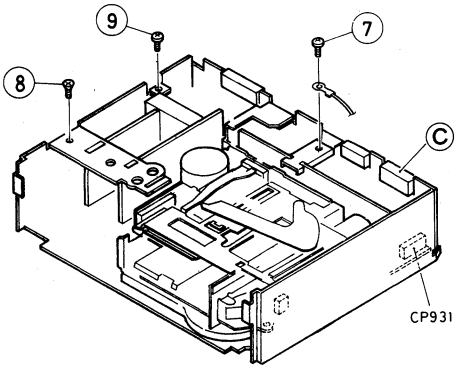



Fig. 3-5

## <Mechanism Components>

### ■ Playback Head (52)

1. Remove the two screws (58) .
2. Remove the (90) screw from the head PCB.
3. Pull out the entire head mount base (20) .
4. Remove the two sdrews (53) in the front part of the head.
5. Disconnect the head PCB wires.

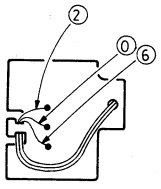



Fig. 3-6

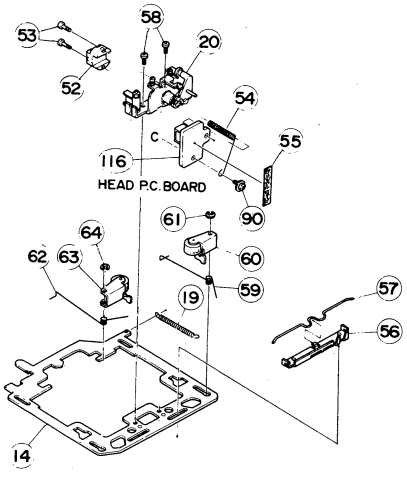



Fig. 3-7

### ■ Capstan Motor (68)

1. Remove the two screws (72) at the bottom of the chassis.
2. Remove the belt from the pulley. (The belt (80) is on the motor side.)
3. Disconnect motor wiring.
4. Pull out the pulley (69) .

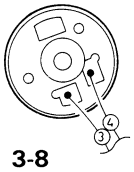



Fig. 3-8

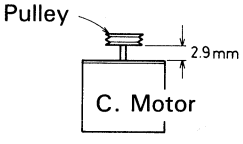



Fig. 3-9

### ■ A. Motor (47)

1. Remove the three screws (87) and the E-ring (88) and lower the L/E slider.
2. Remove the screw (86) .
3. Remove the A gear unit and assembly together.
4. Remove the two screws (51) and take out the A gear (1) (50) and the A motor bush (49) .
5. Disconnect the wiring.
   - When the components are installed, set the head in FWD direction, the direction plate (56) and actuator plate (11) in the direction of the drive PCB direction.

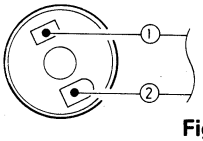



Fig. 3-10

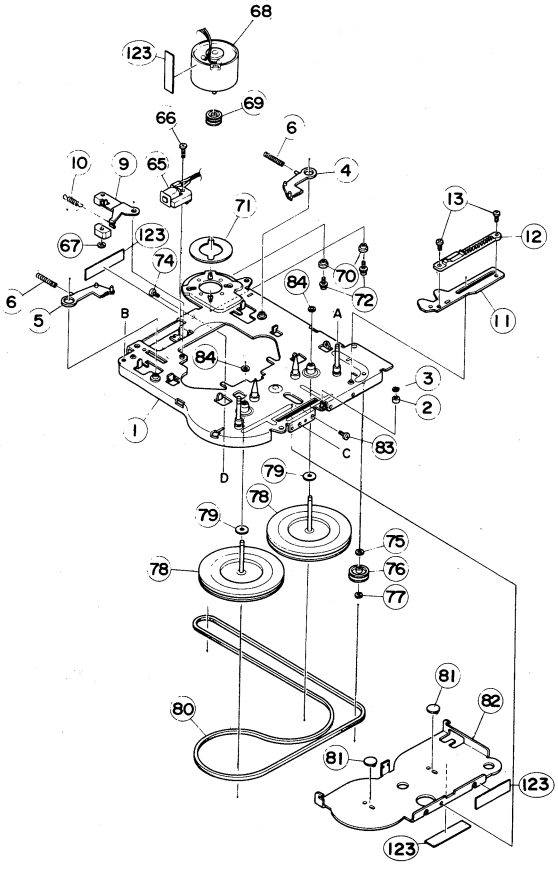



Fig. 3-11

### ■ Flywheel bracket (82)

1. Remove the screw (83) .
2. Press the bracket in towards the AUTO PCB to remove it.

⬇

Now the belt (80) and flywheel assembly (78) can be replaced.

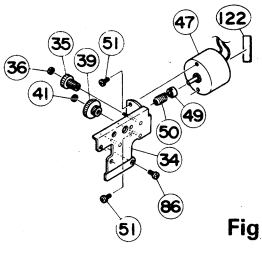



Fig. 3-12

# 4 Main Adjustment

## ■ Measuring devices and jigs required in the adjustments

- **Electronic voltmeter**
- **Oscilloscope**
- **Frequency counter**
- **Wow and flutter meter**
- **Low frequency generator**
- **Torque meter**
- **FM signal generator**
- **AM signal generator**

- **Test Tape**

| | | |
|---|---|---|
| VTT704 | 12.5 kHz | : Azimuth adjustment |
| VTT712 | 3000 Hz 0 dB | : Wow and flutter/tape speed measurements |
| VTT724 | 1 kHz −4 dB | : Standard level adjustment |
| TMT732 | 125/1 k/8 k Hz | : Check of frequency characteristics |
| TMT735 | 1 k/12.5 kHz | : Check of frequency characteristics |
| VTT722 | 1 kHz 0 dB | : Standard level |
| TMT6447 | | : Check of music scan operation |
| TMT6448 | | : Check of music scan operation |

## ■ Measuring Conditions

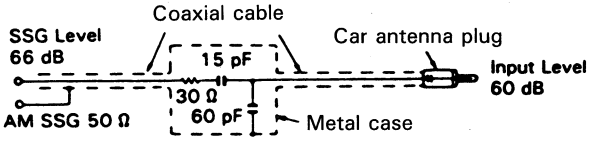
- **Power voltage** ..... 14.4 DCV (reduced voltage 10.5 V)
- **Load** ..... 10 kΩ line output connected
- **Standard setting** .. FADER, BASS and TREBLE at center position and DOLBY NR set to OFF.
- **Standard input (SSG direct reading)** ..... AM: 74 dB, FM: 66 dB
- **Standard control position** ..... The position where playback of the VTT724 produces a 300 mV line output.

## ■ Synchronization Signal Generator (SSG)

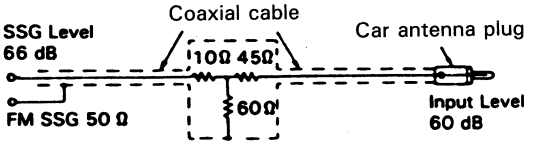
- **AM:** 400 Hz, 30% modulation
- **FM:** 400 Hz, 22.5 kHz deviation
- **FM STEREO:** 1 kHz 67.5 kHz deviation; pilot signal 7.5 kHz
- **Output level:** 0 dB = 1 μV, 50 Ω open pin?

## ■ Dummy Load

Both the AM and FM bands use a special dummy. However, when the FM dummy is used, a 6 dB loss occurs between the SSG output and antenna input.




AM Dummy Antenna




FM Dummy Antenna (6 dB loss occurs)

**Fig. 4-1**

- **Presetting (Original Setting)**

| Band \ Preset No. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| FM | 87.5 MHz | 89.9 MHz | 97.9 MHz | 105.9 MHz | 108.0 MHz | 87.5 MHz |
| AM | 144 kHz | 153 kHz | 522 kHz | 603 kHz | 1404 kHz | 1620 kHz |

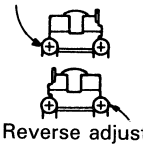
- **Manual Selection**
  FM: 50 kHz
  AM: UP/DOWN control in 9 kHz steps.

**Note: The dB indications used in this manual Fm which is a direct reading of the SSG output is the inspection standard plus 6 dB.**

## ■ Adjustments to be done before installing mechanical components

| Items | Check Points | Place of Adjustments | Conditions | Adjustment Procedures |
|---|---|---|---|---|
| Clock adjustment | TP704 | TC701 | No input<br>Connect the clock pin of the TP705 to ground to short-circuit it. | 1. Connect the clock pin of the TP705 to ground to short-circuit it.<br>2. Adjust the TC701 so that an F. counter connected to TP704 indicates 1048570 ~ 1048582 Hz. |

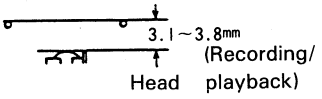
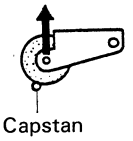
## ■ Cassette Section Adjustments

| Items | Place of Adjustments | Tape Used | Conditions | Adjustment Procedures |
|---|---|---|---|---|
| Head azimuth adjustment | Head adjusting screws<br>Forward adjusting screw<br>  <br>Reverse adjusting screw | VTT704 | Maximum output<br>The difference between FWD/REV levels must be less than 3 dB. | 1. Adjust the output level to maximum, tighten the screw when the phase difference is 0° and adjust it to approximately 90°.<br>(The output should be less than 3 dB from peak level.)<br>2. Use a syringe to lock screws, springs and the head base after the adjustment (# 1401C). |
| Tape speed and wow/flutter adjustments | ———— | VTT712 | Speed:<br>2940 ~ 3090 Hz<br>Wow•Flutter:<br>0.35% — JIS RMS | 1. Wind VTT712 to the beginning and start playback.<br>2. Connect a frequency counter and a wow/flutter meter to the playback output pin to check whether it meets the prescribed standard. |
| DOLBY NR level adjustment | VR301: Lch<br>VR401: Rch | VTT724 | The output level of test point TP501 should be −8.5 dBs±1 dB | 1. Adjust the VR301 and VR401 so that the output level of the TP501 on the DOLBY PCB is −8.5 dBs±1 dB. The difference between FWD/REV levels must be less than 3 dB. |
| Check of playback frequency characteristics | VR302: Lch<br>VR402: Rch | TMT735<br>(1 k,12.5 k)<br>TMT732<br>(125,1 k,8 k) | Use test point TP501 to make the following adjustments:<br>1 kHz/12.5 kHz:<br>0±0.5 dB<br>1 kHz/125 Hz:<br>0±0.5 dB | 1. Play back the TMT735 test tape and adjust the VR302 and VR402 so that the 12.5 kHz level difference for 1 kHz is less than ±0.5.<br>2. Play back the TMT732 test tape and adjust the VR302 and VR402 so that the 125 kHz level difference for 1 kHz is less than 0±3 dB. |
| Check of line output | ———— | ———— | IN: 1 kHz 300 mV<br>OUT: 210 ~ 420 mV | Check that the LINE OUT outputs a voltage of 210 mV ~ 420 mV when a 1 kHz 300 mV signal is input to the AUX and the control is set to maximum. |
| Check of subwoofer output | ———— | ———— | IN: 80 Hz 100 mV<br>OUT: 280 mV | Make sure that the signal from the subwoofer output is 280 mV or more when an 80 Hz, 100 mV signal is input to the AUX/CD input and the subwoofer is set to maximum volume. |

## ■ Receiver Section

| | Items | Check Points | Place of Adjustments | Conditions | Adjustment Procedures |
|---|---|---|---|---|---|
| **FM Section**<br>In case the FVM is in trouble, refer to the Quality Assurance Department of Personal Audio Division.<br>#1 ~ #1000 FM Ass'y No. VDG3311-003CF (G version).<br>#1001~ FM Ass'y No. VDG3311-093CF (B/E/G version). | | | | | |
| **AM Section** | | | | | |
| 6 | AM VT adjustment | | L55<br>TC51 | AM 530 kHz<br>AM 1710 kHz | 1. Set TC51 to its mechanical center position to center its capacity value. (approximately 90°C)<br>2. Adjust L55 so that the output at the VT pin is 1.2 V at 530 kHz.<br>3. Adjust TC51 so that the output at VT pin is 8.5 V at 1710 Hz.<br>4. Perform procedures 2 and 3 repeatedly and end with procedure 2. |
| 7 | Tracking adjustment | AF output | | Minimum output level which allows adjustment | 1. Adjust L53, L54 L56 and L57 so that the output reaches maximum at a reception of 600 kHz.<br>2. Adjust TC51 so that the output reaches maximum at a reception of 1500 kHz. |

## ■ Major performance standards for mechanical elements

| Item | Conditions | Standard | Remarks |
|---|---|---|---|
| Power supply | Standard power supply | Voltage: 13.2 DCV±20% | |
| Power consumption | Tape used: C60<br>Applied voltage:<br>13.2 DCV | Playback (at the end of the reel):<br>Less than 150 mA | |
| | | Fast forward (at the end of the reel):<br>Less than 200 mA<br>(Reel lock): Less than 300 mA | |
| Head position | Special gauge | Recording/Playback: 3.1~3.8 mm |  |
| | | Music scan: 4.4~5 mm | |
| Tape drive power | Cassette type torque gauge: CTG-N | Playback: More than 90 g-cm | |
| | Tension gauge | Pinch roller<br>Pressure: 350~500 g | The pinch roller should return to original position when pressure is released. |
| Take up torque | Cassette type torque gauges:<br>TW2111A (FWD PLAY)<br>TW2121A (REV PLAY)<br>CTG-N (FF•REW) | Playback: 30~75 g-cm |  |
| | | Fast forward: 80~160 g-cm | |
| | | Rewind: 80~160 g-cm | |
| Fast-wind time | Tape used: C60 | Fast forward: Less than 120 sec | |
| | | Rewind: Less than 120 sec | |

## How to distinguish the new and old versions of KS-CG10

| OLD PARTS NO. | PARTS NAME | NEW PARTS NO. |
|---|---|---|
| VDG3311-003CF | FM Board Ass'y | VDG3311-093CF |
| ——— | Controller Unit | KS-P10G |
| ZCKSCG10G-NPA | NOSE Piece Ass'y | ZCKSCG10GR2-NPA |
| VJG1007-016 | NOSE Piece | VJC1007-014 |
| VNN3311-211 | Instructions | VNN3311-212 |

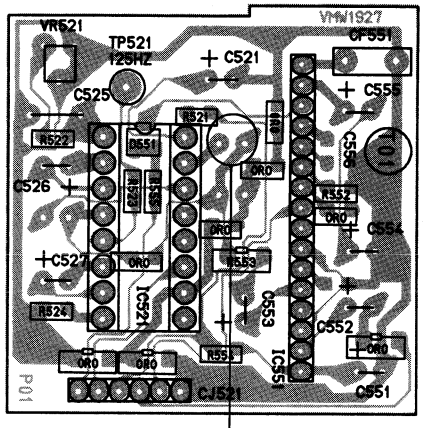
## KS-CG10 G Version

In case the new board ass'y VDG3311-093CF is attached to the existing FM board ass'y VDG3311-003CF in KS-CG10, the existing ass'y can be used as a substitute by performing the following modifiction:

1. Modification of SK/DK Board Ass'y
   Since the SK/DK detector level is too low in the case of the new board ass'y (VDG3311-093CF) board ass'y, it is necessary to modify this ass'y to increase the level as fllows:
   (1) Addition of 1 $\mu$F/50 V E. capacitor (C522)
   (2) One Pattern should be cut off.
   (3) After removing one chip part (0 $\Omega$),two wires should be added on both sides of the part.

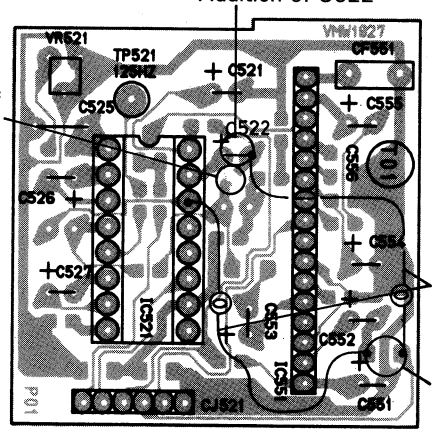
2. Adjustment of AUTO. stop sensitivity
   Since the AUTO. stop sensitivity level is by 2 ~ 4 dB lower in the case of the new DYNAS board ass'y, it is necessary to modify this ass'y to increase the sensitivity level as follows:
   (1) Connect SSG to the Ant. terminal to add a 20 ~ 22 dB$\mu$ level, and adjust the level with VR701 so that the voltage at the TP704 SD terminal becomes 5 V. The VR rotation angle is 5° ~ 10° in counterclockwise direction.

**Modification of SK/DK #1 ~ #1000**




**Results #1001 ~**

Addition of C522

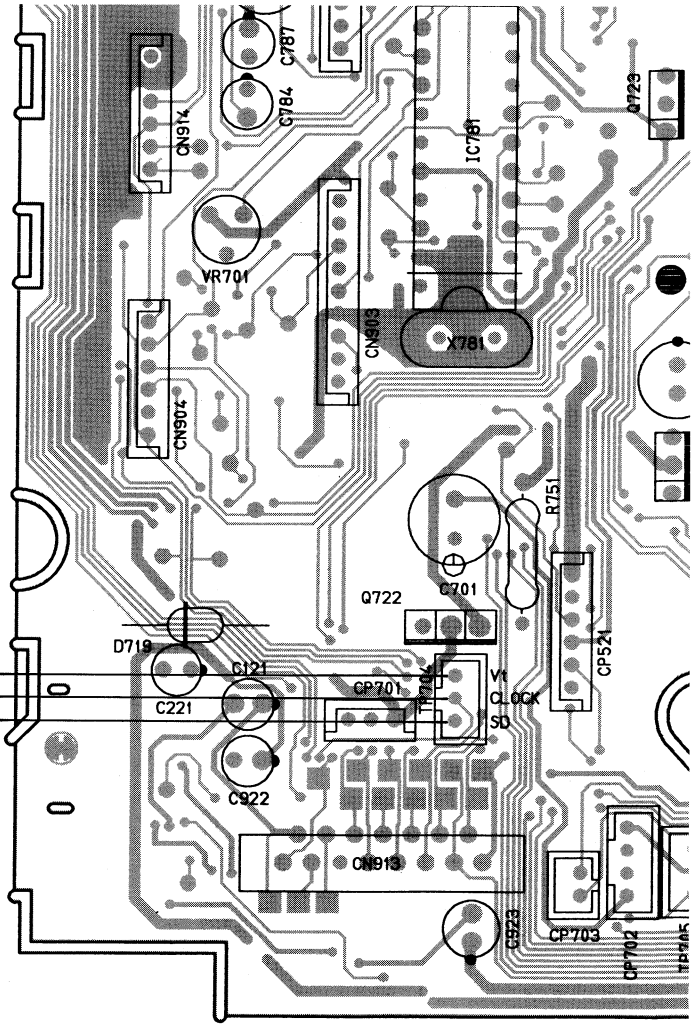



Cut off of pattern

Addition of wires

Removal of chip

**Main board parts side**

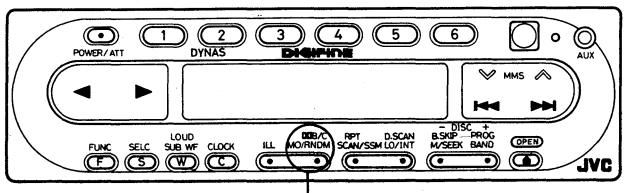


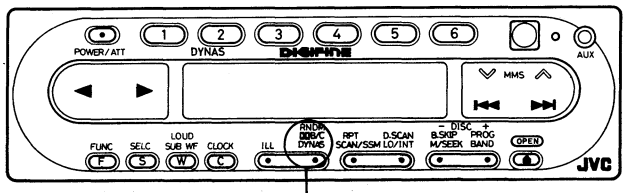
## How to distinguish the new and old versions of KS-CG10 is presented below

**Old version: Product # 1 ~ # 1000** **New version: Product # 1001**

| Old Version (# 1 ~ # 1000) | New Version (# 1001 ~) |
|---|---|

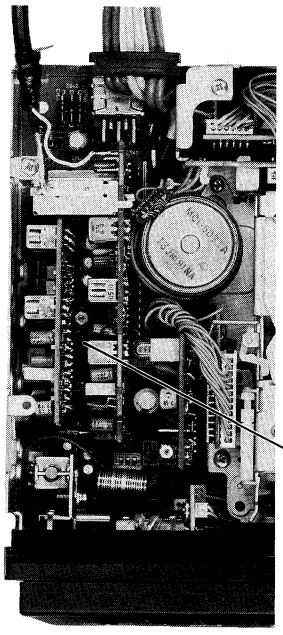
### ■ Surface of the Set (Controller Unit)

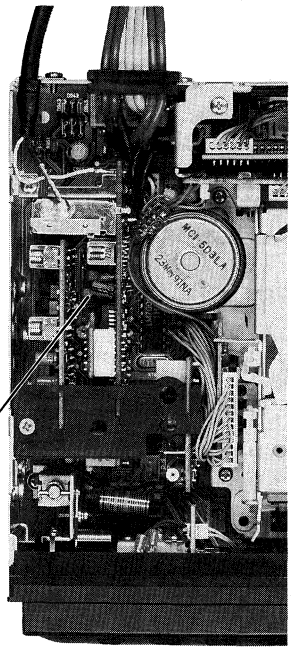



Whether the DYNAS switch is provided or not.

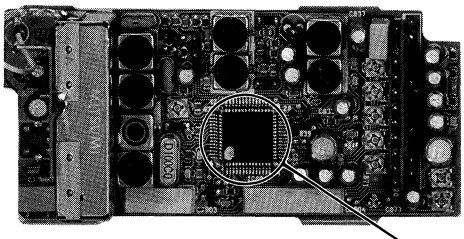
### ■ Top Side View

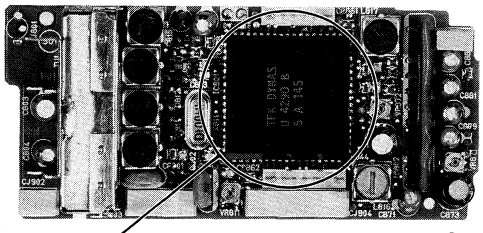


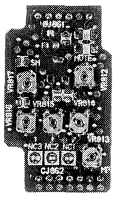


The quantity of parts is different.

### ■ FM Board (Parts Side)



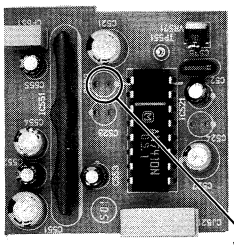


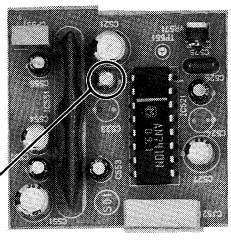


The IC size is different.

This P.C. board is provided above the IC.

### ■ SK/DK Board





Whether C522 is provided or not.

## ■ Tuner Circuit 2/2 (G/GE Version)

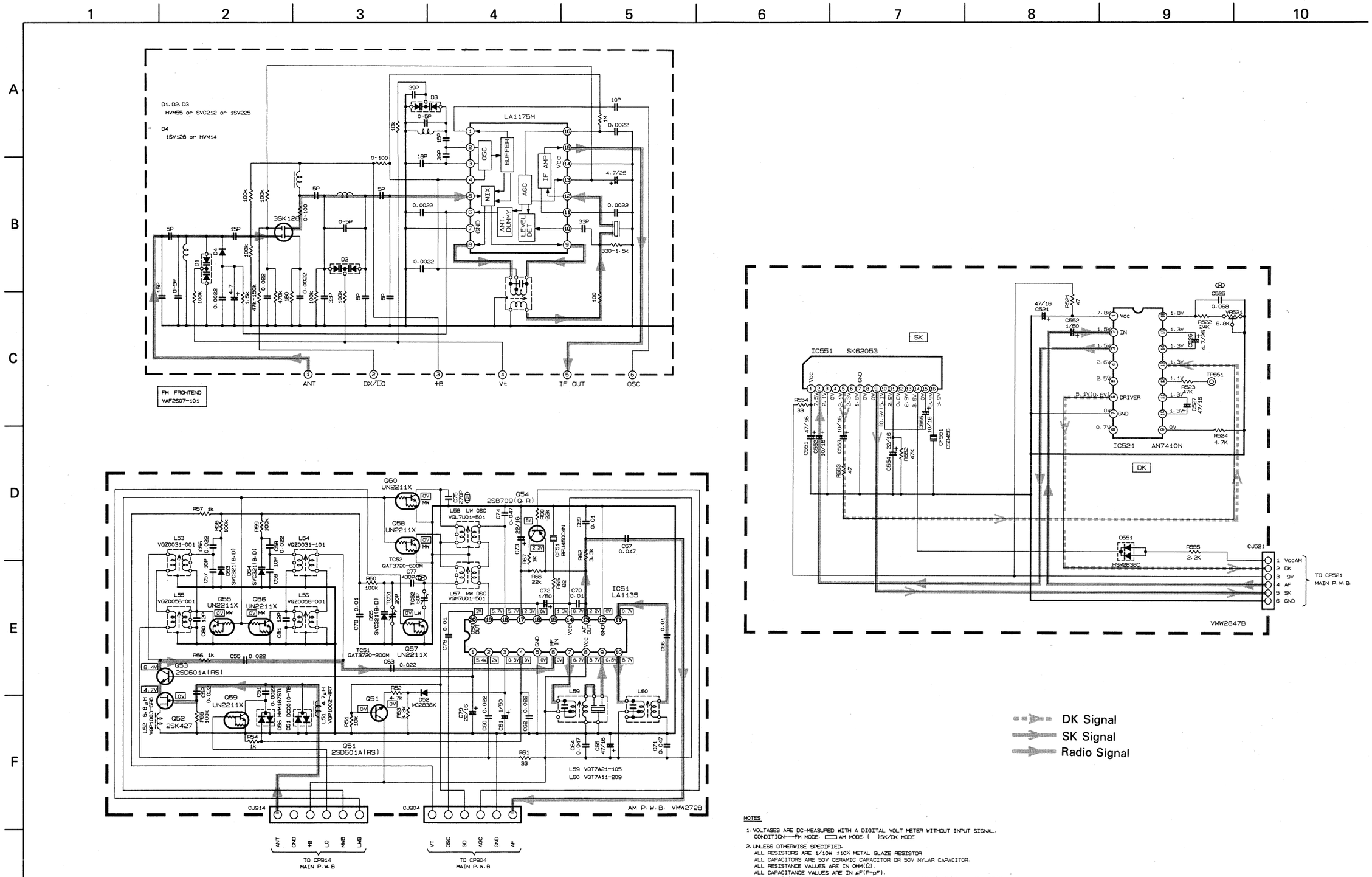
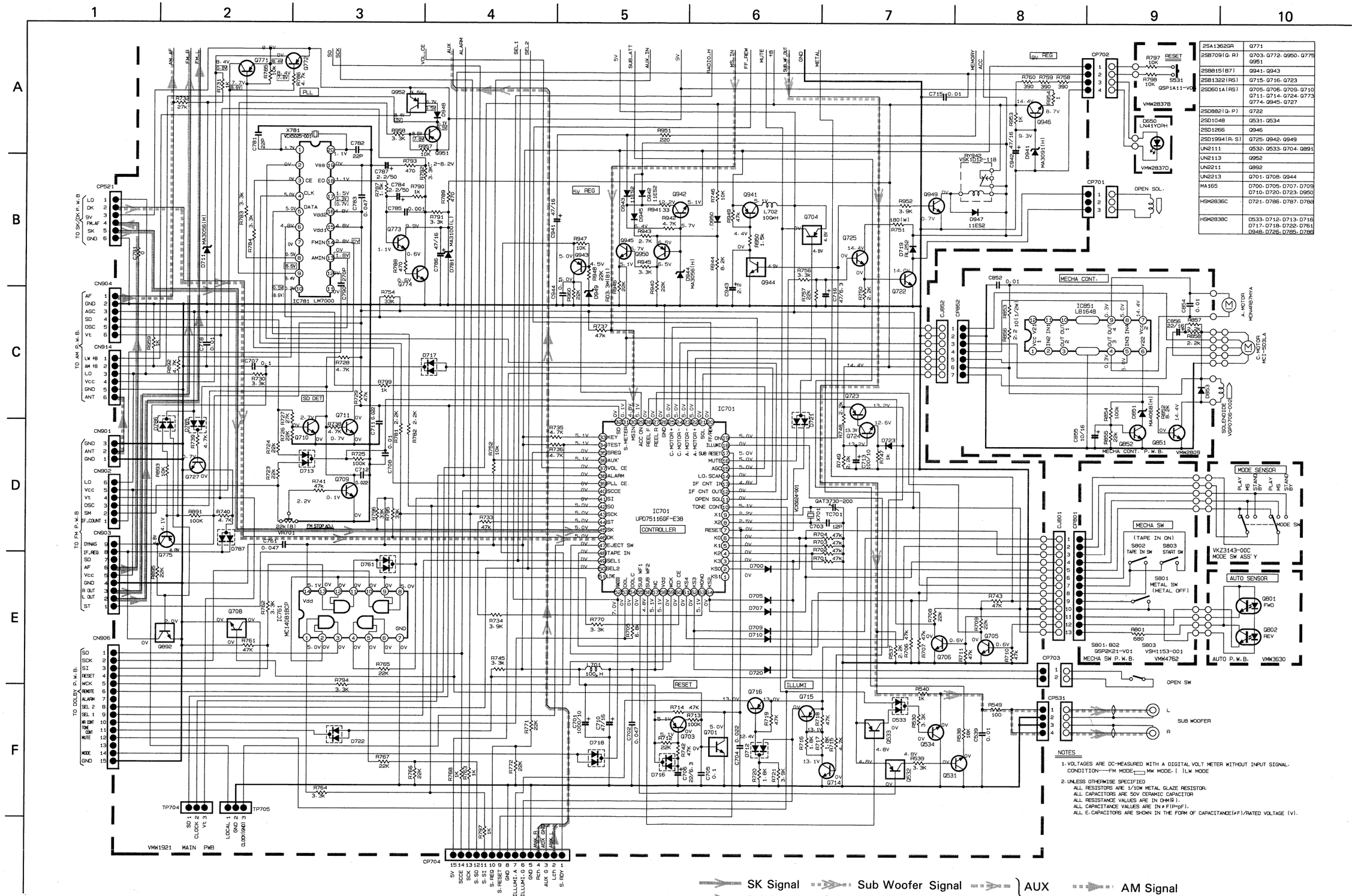



Fig. 6-2

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION——FM MODE. ▭ AM MODE. ( )SK/DK MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W ±10% METAL GLAZE RESISTOR
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V).
   (H) 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR

## ■ Amplifier Circuit 1/2 (G/GE Version)

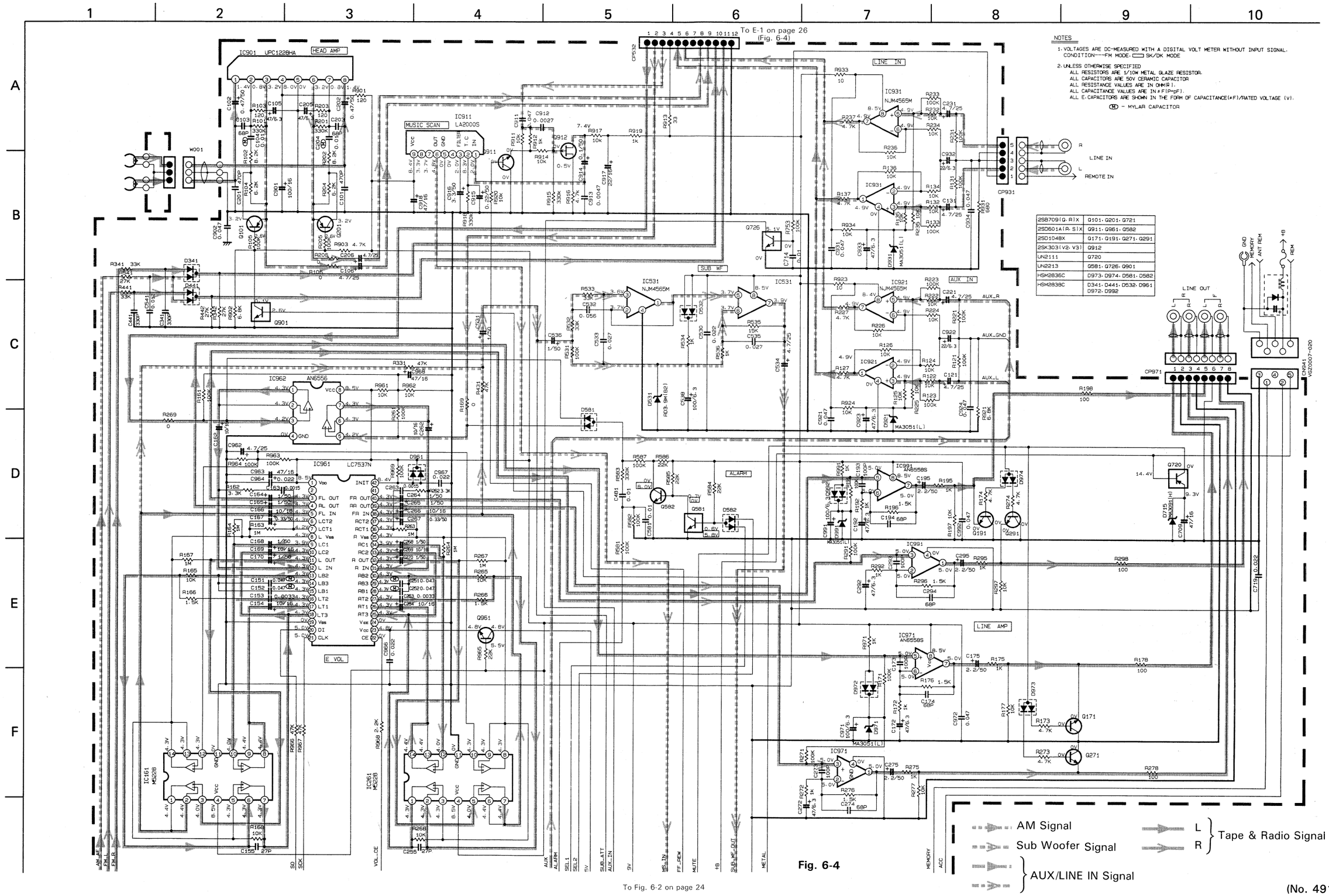



| | |
|---|---|
| 2SA1362GR | Q771 |
| 2SB709(Q.R) | Q703·Q772·Q950·Q775 Q951 |
| 2SB815(B7) | Q941·Q943 |
| 2SB1322(RS) | Q715·Q716·Q723 |
| 2SD601A(RS) | Q705·Q706·Q709·Q710 Q711·Q714·Q724·Q773 Q774·Q945·Q727 |
| 2SD882(Q.P) | Q722 |
| 2SD1048 | Q531·Q534 |
| 2SD1266 | Q946 |
| 2SD1994(R.S) | Q725·Q942·Q949 |
| UN2111 | Q532·Q533·Q704·Q891 |
| UN2113 | Q952 |
| UN2211 | Q892 |
| UN2213 | Q701·Q708·Q944 |
| MA165 | D700·D705·D707·D709 D710·D720·D723·D950 |
| HSM2836C | D721·D786·D787·D788 |
| HSM2838C | D533·D712·D713·D716 D717·D718·D722·D761 D948·D726·D785·D786 |

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION——FM MODE, MW MODE, [ ]LW MODE
2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS ARE 1/10W METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).

## ■ Amplifier Circuit 2/2 (G/GE Version)

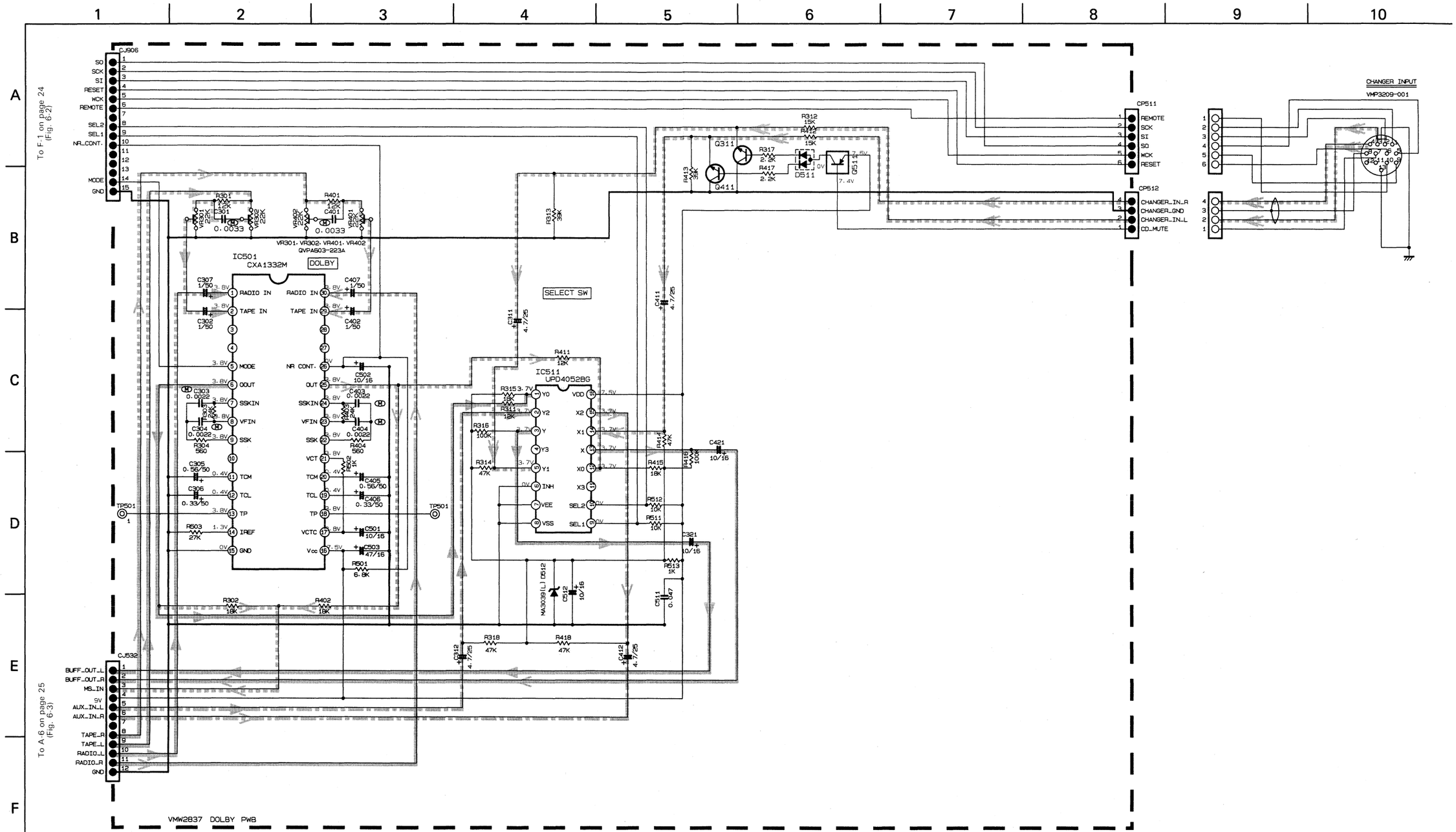



| | |
|---|---|
| 2SB709(Q.R)X | Q101.Q201.Q721 |
| 2SD601A(R.S)X | Q911.Q961.Q582 |
| 2SD1048X | Q171.Q191.Q271.Q291 |
| 2SK303(V2.V3) | Q912 |
| UN2111 | Q720 |
| UN2213 | Q581.Q726.Q901 |
| HSM2836C | D973.D974.D581.D582 |
| HSM2838C | D341.D441.D532.D961 D972.D992 |

Fig. 6-4

To Fig. 6-2 on page 24

## ■ DOLBY NR Circuit (G/GE Version)




NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS ARE 1/10W METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   (M) - MYLAR CAPACITOR
   (T) - TANTAL CAPACITOR

| | |
|---|---|
| UN2113 | Q511 |
| 2SD1048 | Q311, Q411 |
| HSM2836C | D511. |

Fig. 6-5

## ■ Tuner Circuit 2/2 (B/E/GI Version)

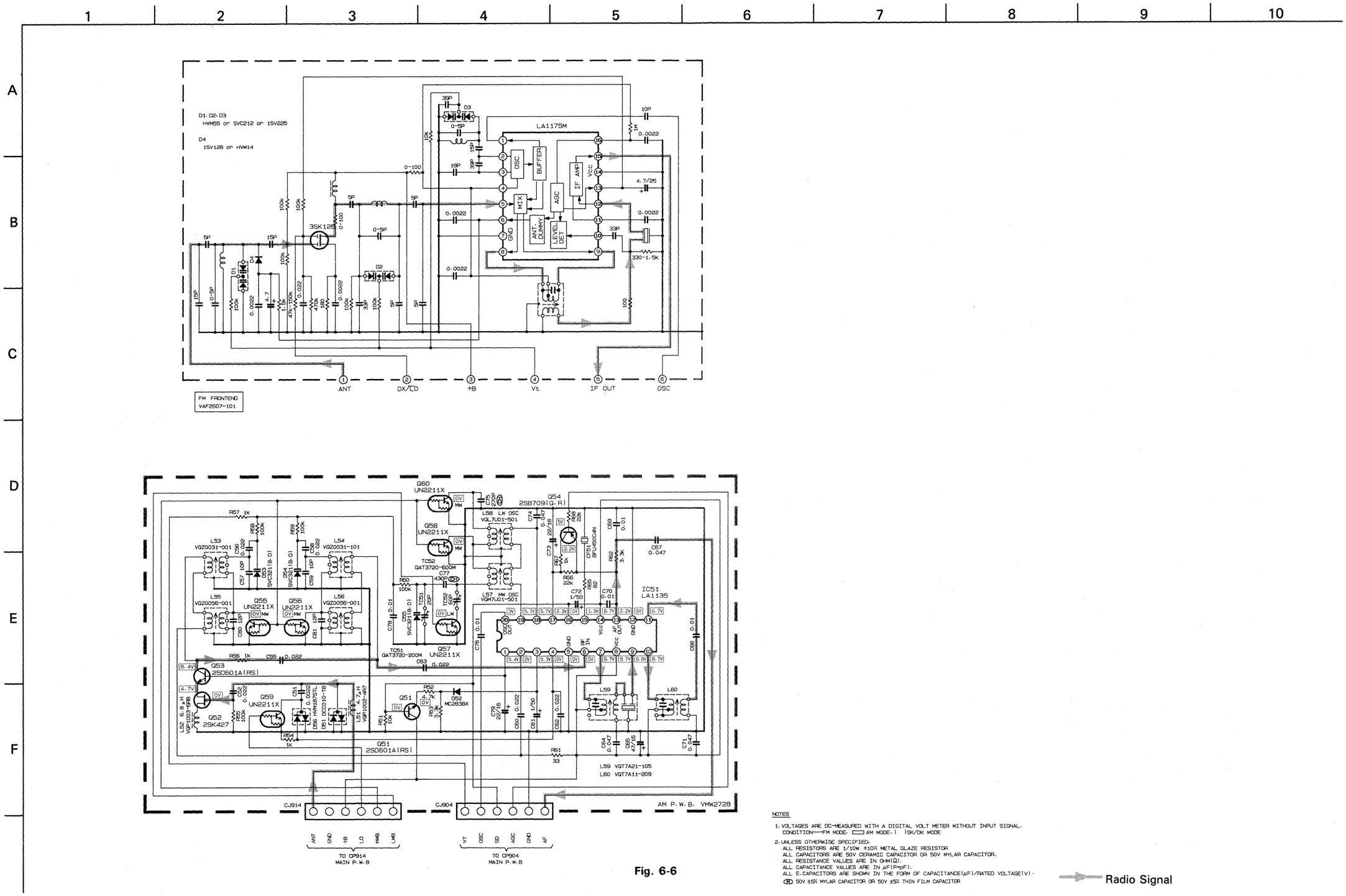


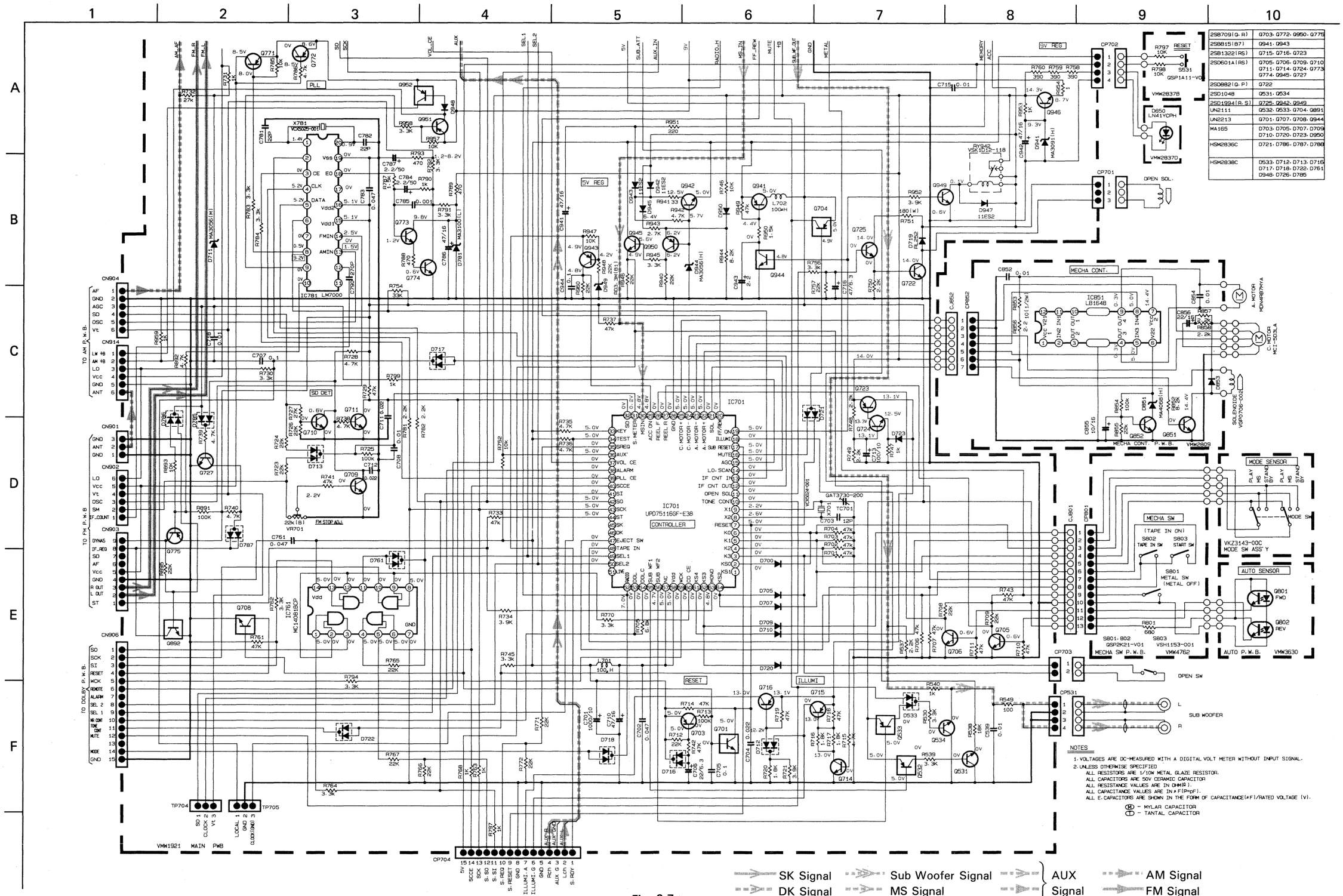

Fig. 6-6

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION——FM MODE. ▭ AM MODE. ( )SK/DK MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W ±10% METAL GLAZE RESISTOR
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P:pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V).
   ⊕ 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR

Radio Signal

## ■ Amplifier Circuit 1/2 (B/E/GI Version)




| | |
|---|---|
| 2SB709(Q.R) | Q703, Q772, Q950, Q775 |
| 2SB815(B7) | Q941, Q943 |
| 2SB1322(RS) | Q715, Q716, Q723 |
| 2SD601A(RS) | Q705, Q706, Q709, Q710, Q711, Q714, Q724, Q773, Q774, Q945, Q727 |
| 2SD882(Q.P) | Q722 |
| 2SD1048 | Q531, Q534 |
| 2SD1994(R.S) | Q725, Q942, Q949 |
| UN2111 | Q532, Q533, Q704, Q891 |
| UN2213 | Q701, Q707, Q708, Q944 |
| MA165 | Q703, Q705, Q707, Q709, Q710, Q720, Q723, Q950 |
| HSM2836C | Q721, Q786, Q787, Q788 |
| HSM2838C | Q533, Q712, Q713, Q716, Q717, Q718, Q722, Q761, Q948, Q726, Q785 |

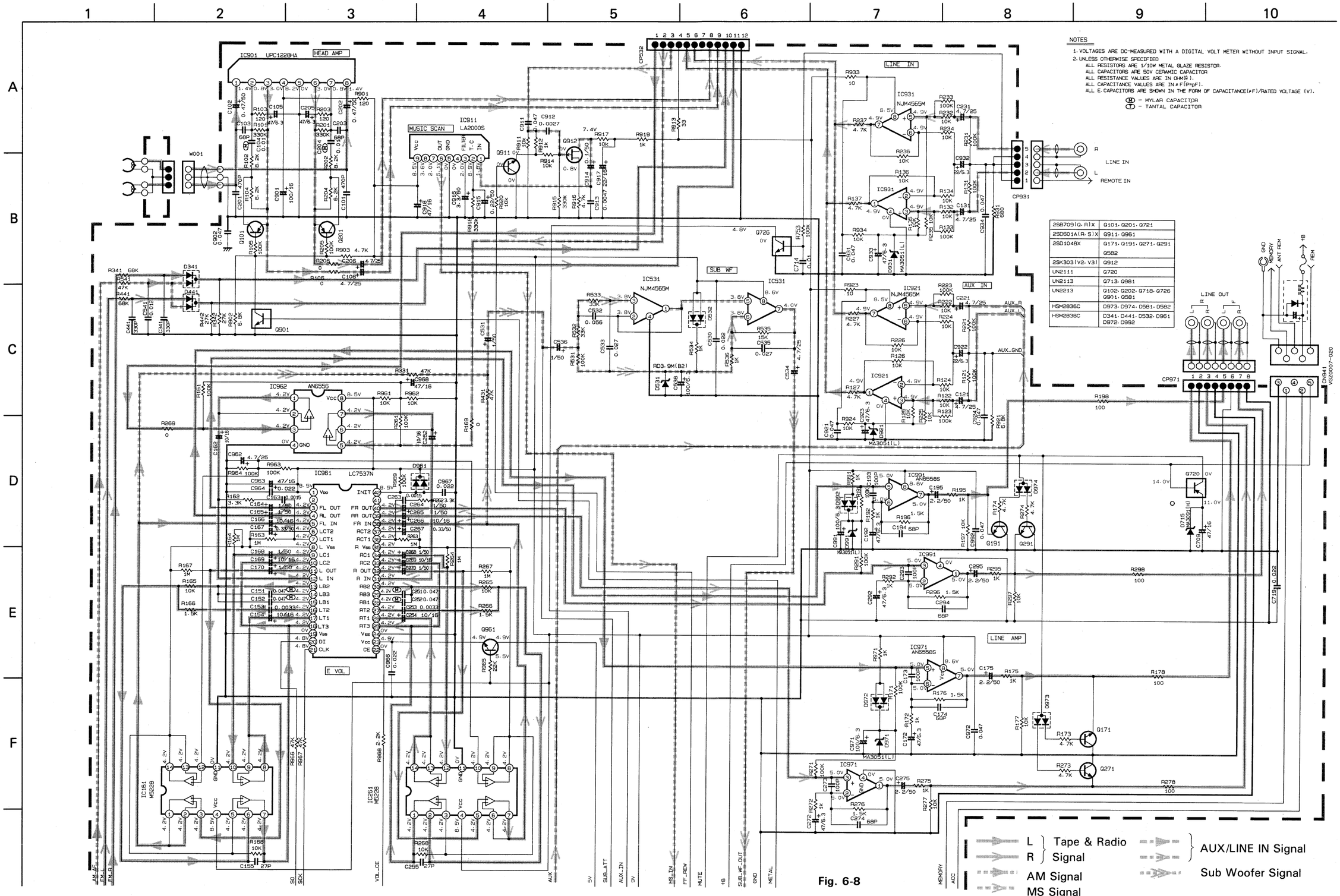
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS ARE 1/10W METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).

Ⓜ - MYLAR CAPACITOR
Ⓣ - TANTAL CAPACITOR

Fig. 6-7

## ■ Amplifier Circuit 2/2 (B/E/GI Version)




| | |
|---|---|
| 2SB709(Q.R)X | Q101.Q201.Q721 |
| 2SD601A(R.S)X | Q911.Q961 |
| 2SD1048X | Q171.Q191.Q271.Q291 Q582 |
| 2SK303(V2.V3) | Q912 |
| UN2111 | Q720 |
| UN2113 | Q713.Q981 |
| UN2213 | Q102.Q202.Q718.Q726 Q991.Q581 |
| HSM2836C | D973.D974.D581.D582 |
| HSM2838C | D341.D441.D532.D961 D972.D992 |

Fig. 6-8

## ■ Indicator/Switch Circuit (B/E/GI Version)

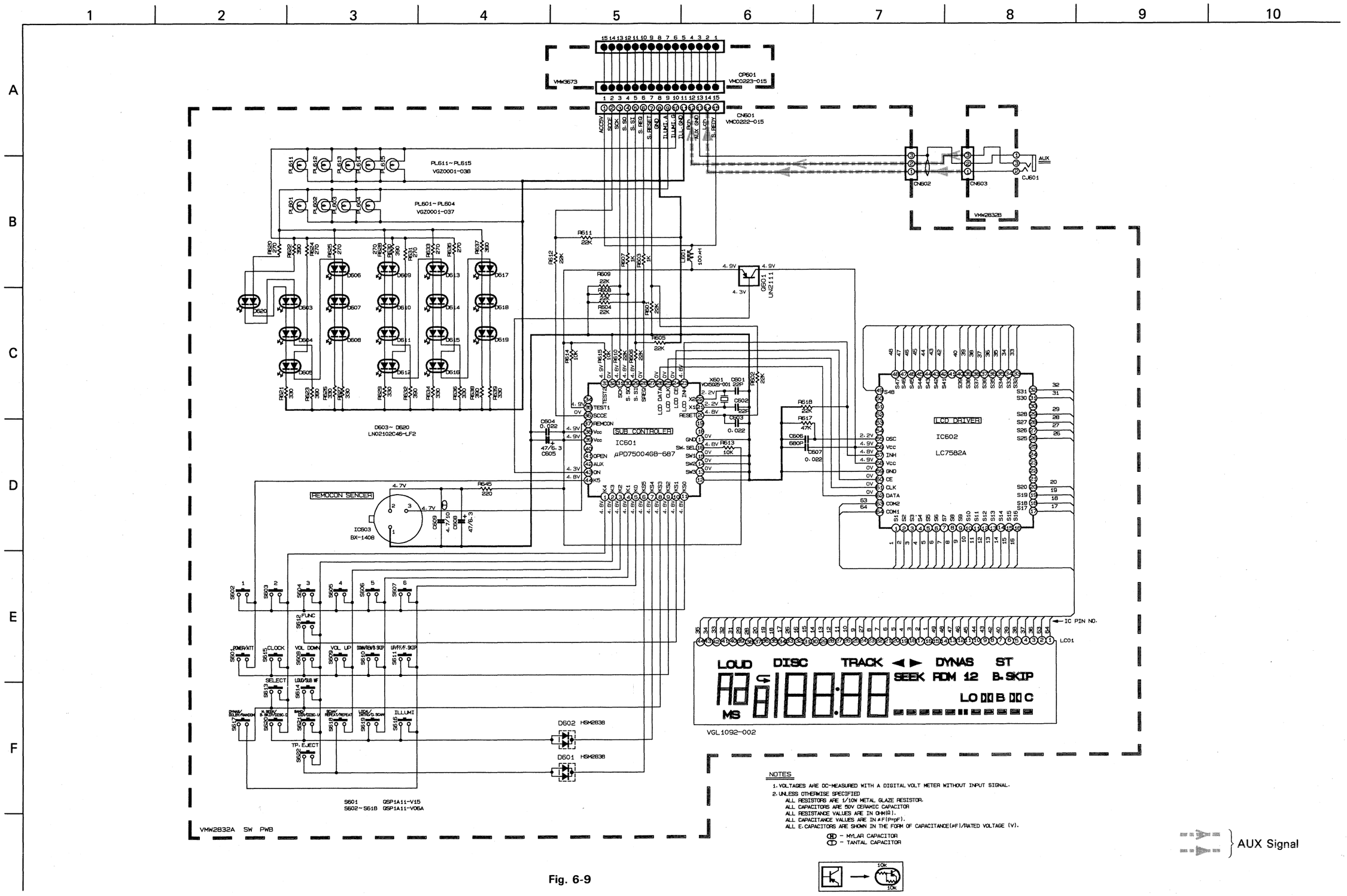



Fig. 6-9

## ■ Indicator/Switch Circuit (G/GE Version)

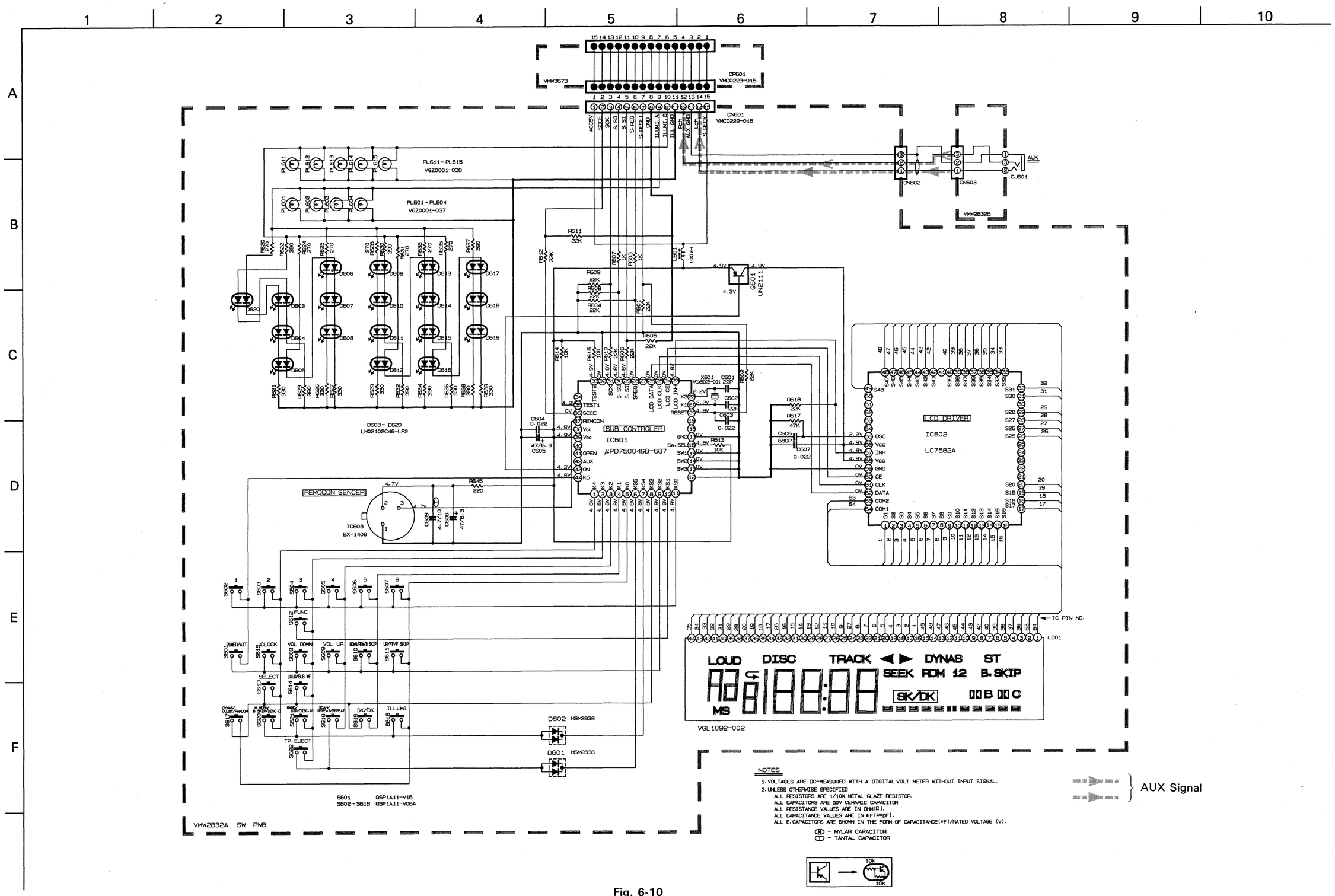



Fig. 6-10

# 7 Wiring Connections

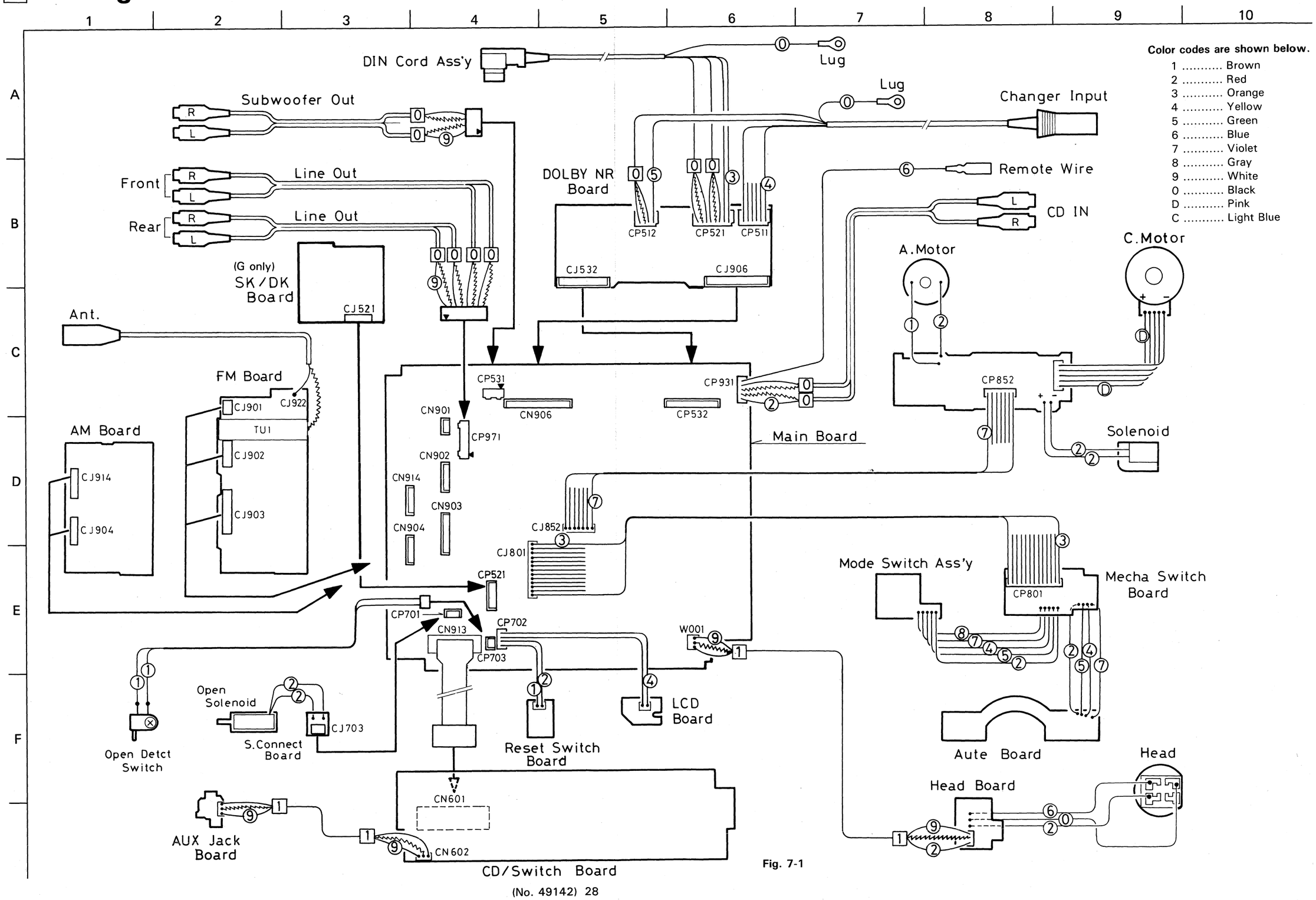



Fig. 7-1

# 8 Location of P.C. Board Parts and Parts List

**The FM board is compatible with the unit. Meanwhile, the P.C. board diagram and parts list are not presented here. (FM P.C. Board Ass'y No. VDG3311-003CF) (#1 ~ #1000 for G/GE version) or VDG3311-093F (other than the above version) (#1001 ~ for G/GE version)**

## ■ FM Board

Parts Side

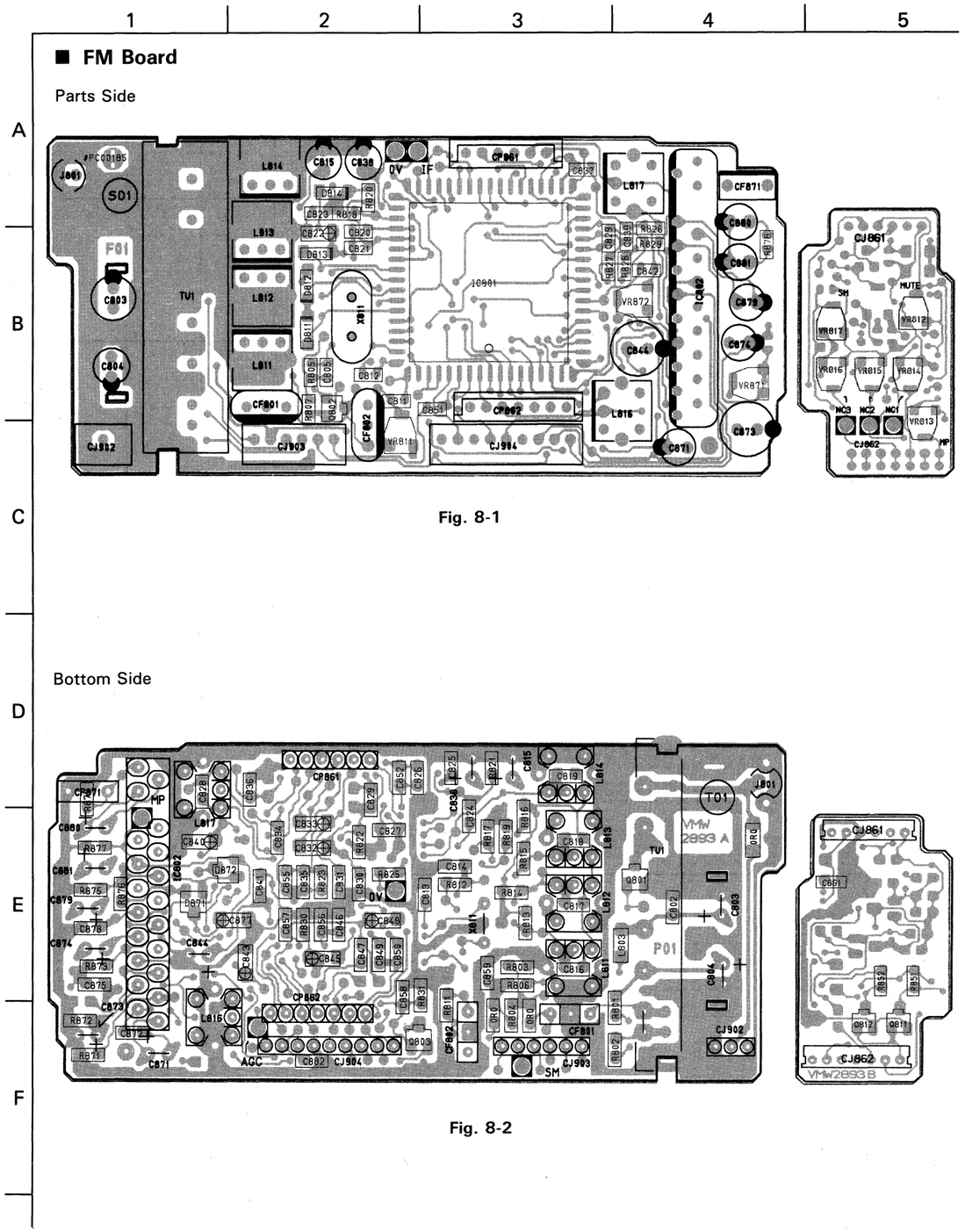


Fig. 8-1

Bottom Side

Fig. 8-2

## ● FM Board Parts List

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 874 | QEK41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C 875 | NCB21HK-152AY | C CAPACITOR | 1500PF 10% 50V | |
| | C 877 | NEF11AM-105LY | TS E CAPACITOR | 1.0MF 20% 10V | |
| | C 878 | NCB21HK-472AY | C CAPACITOR | 4700PF 10% 50V | |
| | C 879 | QEK41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C 880 | QEK41HM-224 | E CAPACITOR | .22MF 20% 50V | |
| | C 881 | QEK41HM-105 | E CAPACITOR | 1.0MF 20% 50V | |
| | C 882 | NCB21HK-472AY | C CAPACITOR | 4700PF 10% 50V | |
| | C 883 | NCB21HK-472AY | C CAPACITOR | 4700PF 10% 50V | |
| | CF801 | VCF2M3B-105 | C FILTER | | |
| | CF802 | VCF2M3B-105 | C FILTER | | |
| | CF871 | CSB456F11 | CELA LOCK | | |
| | CJ902 | VMC0136-003 | CONNECTOR | | |
| | CJ903 | VMC0136-006 | CONNECTOR | | |
| | CJ904 | VMC0136-009 | CONNECTOR | | |
| | CJ922 | VMZ0015-014 | POST PIN | | |
| | D 811 | HVR100-10BTRF | VARI.CAP | | |
| | D 812 | HVR100-10BTRF | VARI.CAP | | |
| | D 813 | HVR100-10BTRF | VARI.CAP | | |
| | D 814 | HVR100-10BTRF | VARI.CAP | | |
| | D 871 | HSM2836C | DIODE | | |
| | D 872 | MA153X | DIODE | | |
| | IC801 | U4290B | IC | DYNAS IC | |
| | IC802 | NMX45935 | IC | N.C & MPX | |
| | L 803 | VQP1002-4R7Y | INDUCTOR | | |
| | L 811 | VQZ0072-001 | IF COIL | 700KHZ IF STAGE | |
| | L 812 | VQZ0072-001 | IF COIL | 700KHZ IF STAGE | |
| | L 813 | VQZ0072-001 | IF COIL | 700KHZ IF STAGE | |
| | L 814 | VQZ0072-001 | IF COIL | 700KHZ IF STAGE | |
| | L 816 | VQZ0076-001 | PEAKING COIL | NOISE B.P.F | |
| | L 817 | VQZ0082-001 | DET COIL | 700KHZ DETECTOR | |
| | Q 801 | UN2213 | TRANSISTOR | | |
| | Q 802 | 2SC2814(F4F5)HL | TRANSISTOR | | |
| | Q 803 | 2SC3661 | TRANSISTOR | | |
| | Q 811 | UN2213 | TRANSISTOR | | |
| | Q 812 | UN2213 | TRANSISTOR | | |
| | R 801 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 802 | NRSA02J-101NY | MG RESISTOR | 100 5% 1/10W | |
| | R 803 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 804 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 805 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 806 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| | R 807 | NRSA02J-101NY | MG RESISTOR | 100 5% 1/10W | |
| | R 811 | NRSA02J-330NY | MG RESISTOR | 33 5% 1/10W | |
| | R 812 | NRSA02J-270NY | MG RESISTOR | 27 5% 1/10W | |
| | R 813 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 814 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 815 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| | R 816 | NRSA02J-183NY | MG RESISTOR | 18K 5% 1/10W | |
| | R 817 | NRSA02J-681NY | MG RESISTOR | 680 5% 1/10W | |
| | R 818 | NRSA02J-101NY | MG RESISTOR | 100 5% 1/10W | |
| | R 819 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 820 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 821 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 822 | NRSA02J-561NY | MG RESISTOR | 560 5% 1/10W | |

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 802 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 803 | QEK41CM-226 | E CAPACITOR | 22MF 20% 16V | |
| | C 804 | QEK41HM-224 | E CAPACITOR | .22MF 20% 50V | |
| | C 805 | NCB21EK-223AY | C CAPACITOR | .022MF 10% 25V | |
| | C 811 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 812 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 813 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 814 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 815 | QEE40JM-106B | E.CAPACITOR | 10MF 20% 6.3V | |
| | C 816 | NCT21CH-121AY | C CAPACITOR | 120PF +50:-10% | |
| | C 817 | NCT21CH-121AY | C CAPACITOR | 120PF +50:-10% | |
| | C 818 | NCT21CH-560AY | C CAPACITOR | 56PF +50:-10% 1 | |
| | C 819 | NCT21CH-560AY | C CAPACITOR | 56PF +50:-10% 1 | |
| | C 820 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 821 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 822 | NEF11VM-104LY | TS E CAPACITOR | .10MF 20% 35V | |
| | C 823 | NCB21HK-153AY | C CAPACITOR | .015MF 10% 50V | |
| | C 824 | NCB21HK-332AY | C CAPACITOR | 3300PF 10% 50V | |
| | C 825 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 826 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 827 | NCT21CH-122AY | C CAPACITOR | 1200PF +50:-10% | |
| | C 828 | NCT21CH-121AY | C CAPACITOR | 120PF +50:-10% | |
| | C 829 | NCT21CH-122AY | C CAPACITOR | 1200PF +50:-10% | |
| | C 830 | NCB21HK-272AY | C CAPACITOR | 2700PF 10% 50V | |
| | C 831 | NCB21HK-272AY | C CAPACITOR | 2700PF 10% 50V | |
| | C 832 | QEF80JM-225X | E.CAPACITOR | 2.2MF 20% 6.3V | |
| | C 833 | QEF80JM-225X | E.CAPACITOR | 2.2MF 20% 6.3V | |
| | C 834 | NCB21HK-472AY | C CAPACITOR | 4700PF 10% 50V | |
| | C 835 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 836 | NCT21UJ-560AY | C CAPACITOR | 56PF 5% | |
| | C 837 | NCT21UJ-331AY | C CAPACITOR | 330PF 5% | |
| | C 838 | QEK41CM-106 | E CAPACITOR | 10MF 20% 16V | |
| | C 839 | NCB21EK-683AY | C CAPACITOR | .068MF 10% 25V | |
| | C 840 | NEF11VM-224LY | TS E CAPACITOR | .22MF 20% 35V | |
| | C 841 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 842 | NCB21EK-333AY | C CAPACITOR | .033MF 10% 25V | |
| | C 843 | NEF11VM-224LY | TS E CAPACITOR | .22MF 20% 35V | |
| | C 844 | QEK41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C 845 | QEF80JM-225X | E.CAPACITOR | 2.2MF 20% 6.3V | |
| | C 846 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 847 | NCB21HK-102AY | C CAPACITOR | 1000PF 10% 50V | |
| | C 848 | QEF81CM-474X | TS E CAPACITOR | .47MF 20% 16V | |
| | C 849 | NCS21HJ-181AY | C CAPACITOR | 180PF 5% 50V | |
| | C 850 | NCB21HK-152AY | C CAPACITOR | 1500PF 10% 50V | |
| | C 851 | NCB21EK-103AY | C CAPACITOR | .010MF 10% 25V | |
| | C 852 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 855 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 856 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 857 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 858 | NCB21HK-102AY | C CAPACITOR | 1000PF 10% 50V | |
| | C 859 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 861 | NCB21EK-333AY | C CAPACITOR | .033MF 10% 25V | |
| | C 871 | QER41EM-475VM | E CAPACITOR | 4.7MF 20% 25V | |
| | C 872 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 873 | QER41CM-476M | E CAPACITOR | 47MF 20% 16V | |

## ■ AM Board

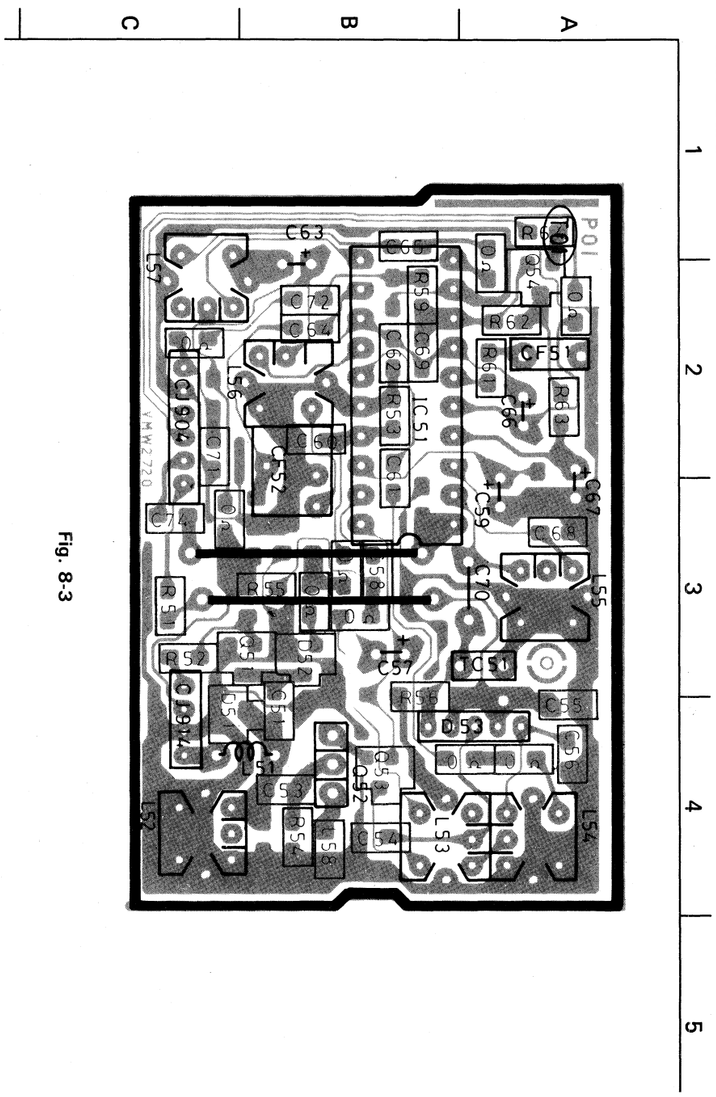



Fig. 8-3

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 823 | NRSA02J-272NY | MG RESISTOR | 2.7K 5% 1/10W | |
| | R 825 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 826 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 827 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 828 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| | R 829 | NRSA02J-272NY | MG RESISTOR | 2.7K 5% 1/10W | |
| | R 830 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 831 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 832 | NRSA02J-392NY | MG RESISTOR | 3.9K 5% 1/10W | |
| | R 851 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 852 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 871 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| | R 872 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 873 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 875 | NRSA02J-683NY | MG RESISTOR | 68K 5% 1/10W | |
| | R 876 | NRSA02J-333NY | MG RESISTOR | 33K 5% 1/10W | |
| | R 877 | NRSA02J-683NY | MG RESISTOR | 68K 5% 1/10W | |
| | R 878 | NRSA02J-512NY | MG RESISTOR | 5.1K 5% 1/10W | |
| | R 879 | NRSA02J-334NY | MG RESISTOR | 330K 5% 1/10W | |
| | TU 1 | VAF2S07-301 | FM FRONTEND | | |
| | VR811 | NVP1412-301NZ | V RESISTOR | IF GAIN ADJ | |
| | VR812 | NVP1412-502NZ | V RESISTOR | MUTE LEVEL ADJ | |
| | VR813 | NVP1412-503NZ | V RESISTOR | MULTIPATH ADJ | |
| | VR814 | NVP1412-104NZ | V RESISTOR | NC1 LEVEL ADJ | |
| | VR815 | NVP1412-104NZ | V RESISTOR | NC2 LEVEL ADJ | |
| | VR816 | NVP1412-503NZ | V RESISTOR | NC3 LEVEL ADJ | |
| | VR817 | NVP1412-104NZ | V RESISTOR | | |
| | VR871 | NVP1412-103NZ | V RESISTOR | SEPARATION ADJ | |
| | VR872 | NVP1412-103NZ | V RESISTOR | SNC HCC CONTROL | |
| | X 811 | VCX5048-001 | CRYSTAL | | |

## ● AM Board Parts List

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 51 | NCB21EK-222AY | C CAPACITOR | 2200PF 10% 25V | |
| | C 52 | NCB21EK-223AY | C CAPACITOR | .022MF 10% 25V | |
| | C 55 | NCB21EK-223AY | C CAPACITOR | .022MF 10% 25V | |
| | C 56 | NCB21EK-223AY | C CAPACITOR | .022MF 10% 25V | |
| | C 57 | NCS21HD-100AY | C CAPACITOR | 10PF 50V | |
| | C 58 | NCB21EK-223AY | C CAPACITOR | .022MF 10% 25V | |
| | C 59 | NCS21HD-100AY | C CAPACITOR | 10PF 50V | |
| | C 60 | NCB21EK-223AY | C CAPACITOR | .022MF 10% 25V | |
| | C 61 | QEK41HM-105 | E CAPACITOR | 1.0MF 20% 50V | |
| | C 62 | NCB21EK-223AY | C CAPACITOR | .022MF 10% 25V | |
| | C 63 | NCB21EK-223AY | C CAPACITOR | .022MF 10% 25V | |
| | C 64 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 65 | QEK41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C 66 | NCB21EK-103AY | C CAPACITOR | .010MF 10% 25V | |
| | C 67 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 69 | NCB21EK-103AY | C CAPACITOR | .010MF 10% 25V | |
| | C 70 | NCB21EK-103AY | C CAPACITOR | .010MF 10% 25V | |
| | C 71 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 72 | QEK41HM-105 | E CAPACITOR | 1.0MF 20% 50V | |
| | C 73 | QER40JM-226 | E CAPACITOR | 22MF 20% 6.3V | |
| | C 74 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 75 | NCT21CH-271AY | C CAPACITOR | 270PF +50:-10% | |
| | C 76 | NCB21EK-103AY | C CAPACITOR | .010MF 10% 25V | |
| | C 77 | NCT21CH-431AY | C CAPACITOR | 430PF +50:-10% | |
| | C 78 | NCB21EK-103AY | C CAPACITOR | .010MF 10% 25V | |
| | C 79 | QEK41CM-226 | E CAPACITOR | 22MF 20% 16V | |
| | C 80 | NCT21CH-120AY | C CAPACITOR | 12PF +50:-10% 1 | |
| | C 81 | NCT21CH-120AY | C CAPACITOR | 12PF +50:-10% 1 | |
| | CF 51 | BFU450C4N | CERAMIC FILTER | | |
| | CJ861 | VMC0137-006 | CONNECTOR | | |
| | CJ862 | VMC0137-007 | CONNECTOR | | |
| | CJ904 | VMC0136-006 | CONNECTOR | | |
| | CJ914 | VMC0136-006 | CONNECTOR | | |
| | CP861 | VMC0135-006 | CONNECTOR | | |
| | CP862 | VMC0135-007 | CONNECTOR | | |
| | D 51 | DCC010 | SI DIODE | | |
| | D 52 | HSM2838C | DIODE | | |
| | D 53 | SVC321NP(B,D)3 | VARI CAP | | |
| | D 54 | SVC321NP(B,D)3 | VARI CAP | | |
| | D 55 | SVC321NP(B,D)3 | VARI CAP | | |
| | D 56 | HVM187STL | DIODE | | |
| | IC 51 | LA1135 | IC | | |
| | L 51 | VQP1002-4R7Y | INDUCTOR | | |
| | L 52 | VQP1003-6R8Y | INDUCTOR | | |
| | L 53 | VQZ0031-001 | MW RF | | |
| | L 54 | VQZ0031-101 | MW RF | | |
| | L 55 | VQZ0056-001 | LW RF | | |
| | L 56 | VQZ0056-001 | LW RF | | |
| | L 57 | VQM7U01-501 | OSC COIL(MW) | | |
| | L 58 | VQL7U01-501 | OSC COIL(LW) | | |
| | L 59 | VQT7A21-105 | IFT | | |
| | L 60 | VQT7A11-209 | IFT | | |
| | Q 51 | 2SD601A(RS) | TRANSISTOR | | |
| | Q 52 | 2SK427(T,U) | FET | | |
| | Q 53 | 2SD601A(RS) | TRANSISTOR | | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | Q 54 | 2SB709(Q,R) | TRANSISTOR | | |
| | Q 55 | UN2211 | TRANSISTOR | | |
| | Q 56 | UN2211 | TRANSISTOR | | |
| | Q 57 | UN2211 | TRANSISTOR | | |
| | Q 58 | UN2211 | TRANSISTOR | | |
| | Q 59 | UN2211 | TRANSISTOR | | |
| | Q 60 | UN2211 | TRANSISTOR | | |
| | R 51 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 52 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 53 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 54 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 55 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 56 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 57 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 58 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 59 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 60 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 61 | NRSA02J-330NY | MG RESISTOR | 33 5% 1/10W | |
| | R 62 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 65 | NRSA02J-820NY | MG RESISTOR | 82 5% 1/10W | |
| | R 66 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 67 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 68 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | TC 51 | QAT3720-200M | T.CAPACITOR | | |
| | TC 52 | QAT3720-600M | T CAPACITOR | | |

## ■ Main Board

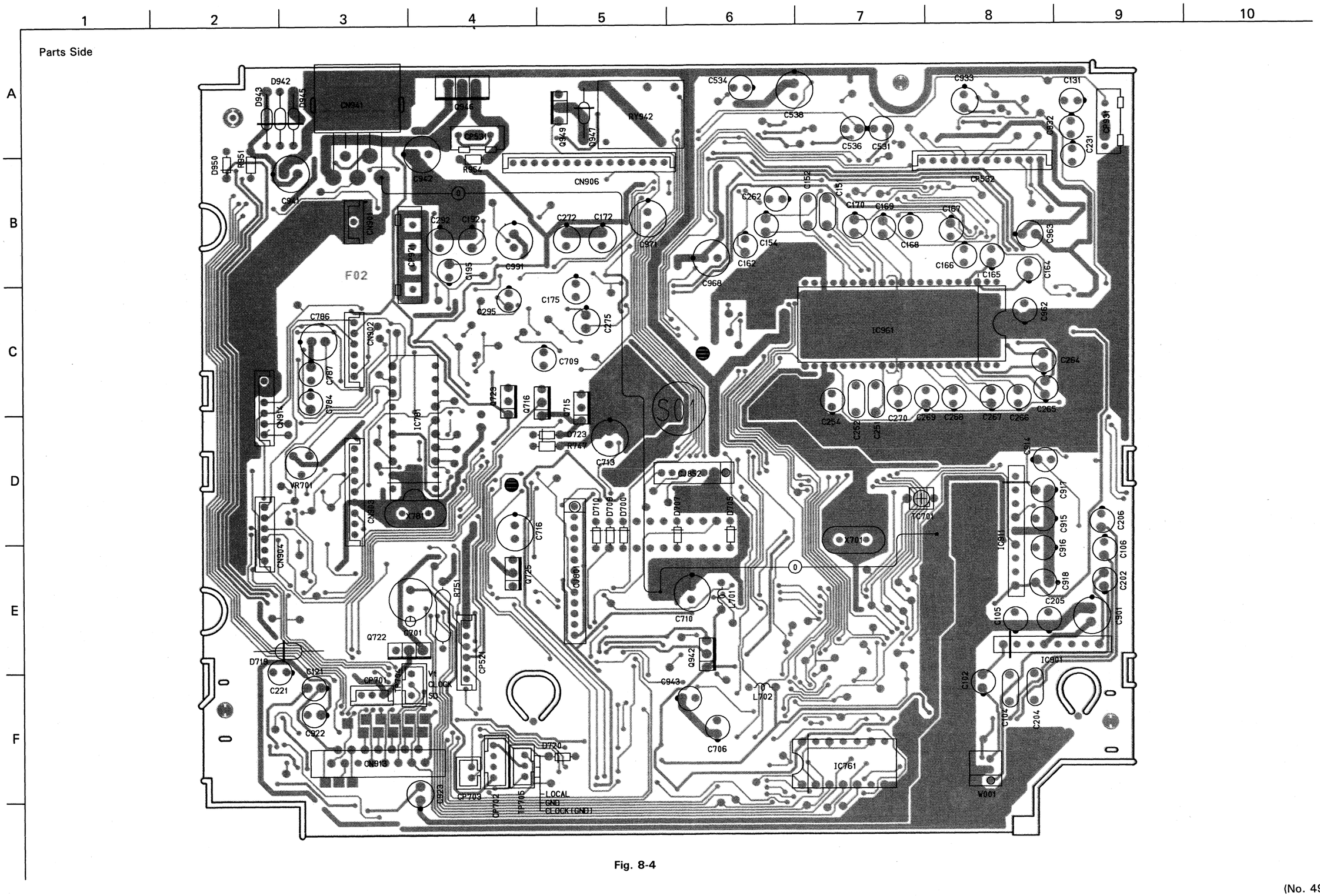



Fig. 8-4

Pattern Side

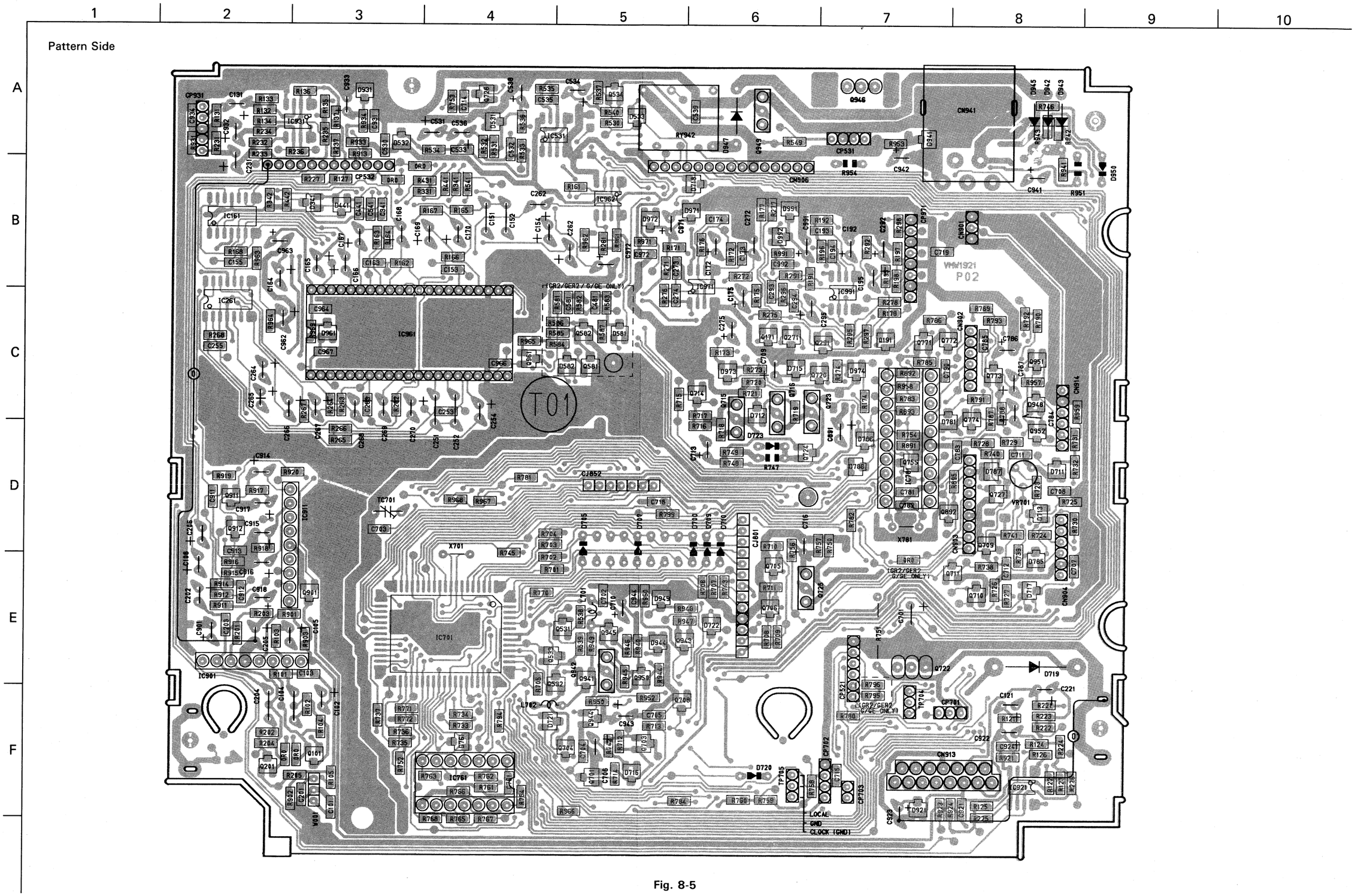



Fig. 8-5

## • Main Board Parts List

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 101 | NCS21HJ-471AY | C CAPACITOR | 470PF 5% 50V | |
| | C 102 | QERF1HM-474ZM | E CAPACITOR | .47MF 20% 50V | |
| | C 103 | NCS21HJ-680AY | C CAPACITOR | 68PF 5% 50V | |
| | C 104 | QFV71HJ-103 | TF CAPACITOR | .010MF 5% 50V | |
| | C 105 | QERFOJM-476ZN | E CAPACITOR | 47MF 20% 6.3V | |
| | C 106 | QER41EM-475VM | E CAPACITOR | 4.7MF 20% 25V | |
| | C 121 | QER41EM-475VM | E CAPACITOR | 4.7MF 20% 25V | |
| | C 131 | QER41EM-475VM | E CAPACITOR | 4.7MF 20% 25V | |
| | C 151 | QFV81HJ-473 | TF CAPACITOR | .047MF 5% 50V | |
| | C 152 | QFV81HJ-473 | TF CAPACITOR | .047MF 5% 50V | |
| | C 153 | NCB21HK-332AY | C CAPACITOR | 3300PF 10% 50V | |
| | C 154 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | |
| | C 155 | NCT21CH-270AY | C CAPASITOR | 27PF +50:-10% 1 | |
| | C 162 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | |
| | C 163 | NCB21HK-152AY | C CAPACITOR | 1500PF 10% 50V | |
| | C 164 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | |
| | C 165 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | |
| | C 166 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | |
| | C 167 | QER41HM-334VM | E CAPACITOR | .33MF 20% 50V | |
| | C 168 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | |
| | C 169 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | |
| | C 170 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | |
| | C 172 | QERFOJM-476ZN | E CAPACITOR | 47MF 20% 6.3V | |
| | C 173 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| | C 174 | NCS21HJ-680AY | C CAPACITOR | 68PF 5% 50V | |
| | C 175 | QER41HM-225 | E CAPACITOR | 2.2MF 20% 50V | |
| | C 192 | QERFOJM-476ZN | E CAPACITOR | 47MF 20% 6.3V | |
| | C 193 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| | C 194 | NCS21HJ-680AY | C CAPACITOR | 68PF 5% 50V | |
| | C 195 | QER41HM-225 | E CAPACITOR | 2.2MF 20% 50V | |
| | C 201 | NCS21HJ-471AY | C CAPACITOR | 470PF 5% 50V | |
| | C 202 | QERF1HM-474ZM | E CAPACITOR | .47MF 20% 50V | |
| | C 203 | NCS21HJ-680AY | C CAPACITOR | 68PF 5% 50V | |
| | C 204 | QFV71HJ-103 | TF CAPACITOR | .010MF 5% 50V | |
| | C 205 | QERFOJM-476ZN | E CAPACITOR | 47MF 20% 6.3V | |
| | C 206 | QER41EM-475VM | E CAPACITOR | 4.7MF 20% 25V | |
| | C 221 | QER41EM-475VM | E CAPACITOR | 4.7MF 20% 25V | |
| | C 231 | QER41EM-475VM | E CAPACITOR | 4.7MF 20% 25V | |
| | C 251 | QFV81HJ-473 | TF CAPACITOR | .047MF 5% 50V | |
| | C 252 | QFV81HJ-473 | TF CAPACITOR | .047MF 5% 50V | |
| | C 253 | NCB21HK-332AY | C CAPACITOR | 3300PF 10% 50V | |
| | C 254 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | |
| | C 255 | NCT21CH-270AY | C CAPASITOR | 27PF +50:-10% 1 | |
| | C 262 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | |
| | C 263 | NCB21HK-152AY | C CAPACITOR | 1500PF 10% 50V | |
| | C 264 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | |
| | C 265 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | |
| | C 266 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | |
| | C 267 | QER41HM-334VM | E CAPACITOR | .33MF 20% 50V | |
| | C 268 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | |
| | C 269 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | |
| | C 270 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | |
| | C 272 | QERFOJM-476ZN | E CAPACITOR | 47MF 20% 6.3V | |
| | C 273 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| | C 274 | NCS21HJ-680AY | C CAPACITOR | 68PF 5% 50V | |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 275 | QER41HM-225 | E CAPACITOR | 2.2MF 20% 50V | |
| | C 292 | QERFOJM-476ZN | E CAPACITOR | 47MF 20% 6.3V | |
| | C 293 | NCS21HJ-101AY | C CAPACITOR | 100PF 5% 50V | |
| | C 294 | NCS21HJ-680AY | C CAPACITOR | 68PF 5% 50V | |
| | C 295 | QER41HM-225 | E CAPACITOR | 2.2MF 20% 50V | |
| | C 341 | NCS21HJ-331AY | C CAPACITOR | 330PF 5% 50V | |
| | C 441 | NCS21HJ-331AY | C CAPACITOR | 330PF 5% 50V | |
| | C 481 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 530 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 531 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | |
| | C 532 | NCF21EZ-563AY | C CAPACITOR | .056MF +80:-20% | |
| | C 533 | NCB21HK-273AY | C CAPACITOR | .027MF 10% 50V | |
| | C 534 | QER41EM-475VM | E CAPACITOR | 4.7MF 20% 25V | |
| | C 535 | NCB21HK-273AY | C CAPACITOR | .027MF 10% 50V | |
| | C 536 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | |
| | C 538 | QERFOJM-107ZN | E CAPACITOR | 100MF 20% 6.3V | |
| | C 539 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 541 | NCB21HK-123AY | C CAPACITOR | .012MF 10% 50V | |
| | C 581 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 701 | VCE0040-001 | E CAPACITOR | | |
| | C 702 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 50V | |
| | C 703 | NCT21CH-120AY | C CAPACITOR | 12PF +50:-10% 1 | |
| | C 704 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 705 | NCF21EZ-104AY | C CAPACITOR | .10MF +80:-20% | |
| | C 706 | QER40JM-226 | E CAPACITOR | 22MF 20% 6.3V | |
| | C 707 | NCF21EZ-104AY | C CAPACITOR | .10MF +80:-20% | |
| | C 708 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 709 | QER41CM-476M | E CAPACITOR | 47MF 20% 16V | |
| | C 710 | QER41CM-476M | E CAPACITOR | 47MF 20% 16V | |
| | C 711 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 712 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 713 | QERF1CM-107ZM | E CAPACITOR | 100MF 20% 16V | |
| | C 714 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 715 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 50V | |
| | C 716 | QERFOJM-476ZN | E CAPACITOR | 47MF 20% 6.3V | |
| | C 718 | NCB21HK-103AY | C CAPACITOR | .010MF 10% 50V | |
| | C 719 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 761 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 50V | |
| | C 781 | NCT21CH-220AY | C CAPACITOR | 22PF +50:-10% 1 | |
| | C 782 | NCT21CH-220AY | C CAPACITOR | 22PF +50:-10% 1 | |
| | C 783 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 50V | |
| | C 784 | QER41HM-225 | E CAPACITOR | 2.2MF 20% 50V | |
| | C 785 | NCB21HK-102AY | C CAPACITOR | 1000PF 10% 50V | |
| | C 786 | QER41CM-476M | E CAPACITOR | 47MF 20% 16V | |
| | C 787 | QER41HM-225 | E CAPACITOR | 2.2MF 20% 50V | |
| | C 790 | NCT21CH-270AY | C CAPASITOR | 27PF +50:-10% 1 | |
| | C 791 | NRSA02J-0RONY | MG RESISTOR | 5% 1/10W | |
| | C 901 | QERF1CM-107ZM | E CAPACITOR | 100MF 20% 16V | |
| | C 902 | QCC11EM-103V | C CAPACITOR | .010MF 20% 25V | |
| | C 911 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 50V | |
| | C 912 | NCB21HK-272AY | C CAPACITOR | 2700PF 10% 50V | |
| | C 913 | NCB21HK-472AY | C CAPACITOR | 4700PF 10% 50V | |
| | C 914 | QER41HM-104M | E CAPACITOR | .10MF 20% 50V | |
| | C 915 | QER41HM-224VS | E CAPACITOR | .22MF 20% 50V | |
| | C 916 | QERF1HM-335ZN | E CAPACITOR | 3.3MF 20% 50V | |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 917 | QER41CM-226VM | E CAPACITOR | 22MF 20% 16V | |
| | C 918 | QER41CM-476M | E CAPACITOR | 47MF 20% 16V | |
| | C 921 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 922 | QER40JM-226 | E CAPACITOR | 22MF 20% 6.3V | |
| | C 923 | QERF0JM-476ZN | E CAPACITOR | 47MF 20% 6.3V | |
| | C 924 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 50V | |
| | C 931 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 50V | |
| | C 932 | QER40JM-226 | E CAPACITOR | 22MF 20% 6.3V | |
| | C 933 | QERF0JM-476ZN | E CAPACITOR | 47MF 20% 6.3V | |
| | C 934 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 50V | |
| | C 941 | QER41CM-476M | E CAPACITOR | 47MF 20% 16V | |
| | C 942 | QER41CM-476M | E CAPACITOR | 47MF 20% 16V | |
| | C 943 | QER41HM-225 | E CAPACITOR | 2.2MF 20% 50V | |
| | C 944 | NCF21EZ-104AY | C CAPACITOR | .10MF +80:-20% | |
| | C 962 | QER41EM-475VM | E CAPACITOR | 4.7MF 20% 25V | |
| | C 963 | QER41CM-476M | E CAPACITOR | 47MF 20% 16V | |
| | C 964 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 966 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 967 | NCB21HK-223AY | C CAPACITOR | .022MF 10% 50V | |
| | C 968 | QER41CM-476M | E CAPACITOR | 47MF 20% 16V | |
| | C 971 | QERF0JM-107ZN | E CAPACITOR | 100MF 20% 6.3V | |
| | C 972 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 50V | |
| | C 991 | QERF0JM-107ZN | E CAPACITOR | 100MF 20% 6.3V | |
| | C 992 | NCB21HK-473AY | C CAPACITOR | .047MF 10% 50V | |
| | CN901 | VMC0135-003 | CONNECTOR | FM P.W.B. | |
| | CN902 | VMC0135-006 | CONNECTOR | FM P.W.B. | |
| | CN903 | VMC0135-009 | CONNECTOR | FM P.W.B. | |
| | CN904 | VMC0135-006 | CONNECTOR | AM P.W.B. | |
| | CN906 | VMC0135-015 | CONNECTOR | DOLBY P.W.B. | |
| | CN913 | EMV7901-015 | CONNECTOR | TO NOSE ASS'Y | |
| | CN914 | VMC0135-006 | CONNECTOR | AM P.W.B. | |
| | CN941 | VGZ0007-020 | FEED THRU CONNE | | |
| | CP521 | VMC0135-006 | CONNECTOR | | |
| | CP531 | VMC0063-004 | CONNECTOR | SUB WOOFER | |
| | CP532 | VMC0135-012 | CONNECTOR | DOLBY P.W.B. | |
| | CP701 | VMC0135-003 | CONNECTOR | OPEN SOL | |
| | CP702 | VMC0075-004N | CONNECTOR | RESET SW | |
| | CP703 | VMC0075-002N | CONNECTOR | OPENｹﾝｼ ﾂ | |
| | CP931 | VMC0063-005 | CONNECTOR | LINE IN | |
| | CP971 | VMC0063-008 | CONNECTOR | LINE OUT | |
| | D 341 | HSM2838C | DIODE | | |
| | D 441 | HSM2838C | DIODE | | |
| | D 531 | MA3039(L) | Z DIODE | | |
| | D 532 | HSM2838C | DIODE | | |
| | D 533 | HSM2838C | DIODE | | |
| | D 581 | HSM2836C | DIODE | | |
| | D 582 | HSM2836C | DIODE | | |
| | D 700 | MA165 | SI DIODE | | |
| | D 705 | MA165 | SI DIODE | | |
| | D 707 | MA165 | SI DIODE | | |
| | D 709 | MA165 | SI DIODE | | |
| | D 710 | MA165 | SI DIODE | | |
| | D 711 | MA3056 | Z DIODE | | |
| | D 712 | HSM2838C | DIODE | 2ｼﾝｸﾞｲﾙﾐ | |
| | D 713 | HSM2838C | DIODE | SD | |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | D 715 | MA3091(H) | Z DIODE | MUTE | |
| | D 716 | HSM2838C | DIODE | RESET | |
| | D 717 | HSM2838C | DIODE | LOCAL | |
| | D 718 | HSM2838C | DIODE | RADIO | |
| | D 719 | RL252 | S DIODE | SOL | |
| | D 720 | MA165 | SI DIODE | OPENｹﾝｼ ﾂ | |
| | D 721 | HSM2836C | DIODE | RESET MUTE | |
| | D 722 | HSM2838C | DIODE | | |
| | D 723 | MA165 | SI DIODE | | |
| | D 761 | HSM2838C | DIODE | | |
| | D 781 | MA3100(L) | ZENER DIODE | | |
| | D 785 | HSM2838C | DIODE | | |
| | D 786 | HSM2838C | DIODE | | |
| | D 787 | HSM2836C | DIODE | | |
| | D 788 | HSM2836C | DIODE | | |
| | D 921 | MA3051(L) | Z DIODE | | |
| | D 931 | MA3051(L) | Z DIODE | | |
| | D 941 | MA3091(H) | Z DIODE | | |
| | D 942 | 11ES2 | SI.DIODE | | |
| | D 943 | 11ES2 | SI.DIODE | | |
| | D 944 | MA3056 | Z DIODE | | |
| | D 945 | 11ES2 | SI.DIODE | | |
| | D 947 | 11ES2 | SI.DIODE | | |
| | D 948 | HSM2838C | DIODE | | |
| | D 949 | MA3039(L) | Z DIODE | | |
| | D 950 | MA165 | SI DIODE | | |
| | D 961 | HSM2838C | DIODE | | |
| | D 971 | MA3047(M)X | Z DIODE | | |
| | D 972 | HSM2838C | DIODE | | |
| | D 973 | HSM2836C | DIODE | | |
| | D 974 | HSM2836C | DIODE | | |
| | D 991 | MA3047(M)X | Z DIODE | | |
| | D 992 | HSM2838C | DIODE | | |
| | IC161 | M5228FP | IC | | |
| | IC261 | M5228FP | IC | | |
| | IC531 | NJM4565M | IC | | |
| | IC701 | UPD75116GF-E74 | IC | | |
| | IC761 | MC14081BCP | IC | | |
| | IC781 | LM7000 | IC | | |
| | IC901 | UPC1228HA | IC | | |
| | IC911 | LA2000S | IC | | |
| | IC921 | NJM4565M | IC | | |
| | IC931 | NJM4565M | IC | | |
| | IC961 | LC7537N | IC | | |
| | IC962 | AN6556S | IC CMOS | | |
| | IC971 | AN6558S | MINI FLAT IC | | |
| | IC991 | AN6558S | MINI FLAT IC | | |
| | L 701 | VQP025K-101 | INDUCTOR | | |
| | Q 101 | 2SB709(Q,R) | TRANSISTOR | | |
| | Q 171 | 2SD1048X-6HL | TRANSISTOR | | |
| | Q 191 | 2SD1048X-6HL | TRANSISTOR | | |
| | Q 201 | 2SB709(Q,R) | TRANSISTOR | | |
| | Q 271 | 2SD1048X-6HL | TRANSISTOR | | |
| | Q 291 | 2SD1048X-6HL | TRANSISTOR | | |
| | Q 531 | 2SD1048X-6HL | TRANSISTOR | | |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | Q 532 | UN2111 | TRANSISTOR | | |
| | Q 533 | UN2111 | TRANSISTOR | | |
| | Q 534 | 2SD1048X-6HL | TRANSISTOR | | |
| | Q 581 | UN2213 | TRANSISTOR | | |
| | Q 582 | 2SD601A(RS) | TRANSISTOR | | |
| | Q 701 | UN2213 | TRANSISTOR | | |
| | Q 703 | 2SB709(Q,R) | TRANSISTOR | | |
| | Q 704 | UN2111 | TRANSISTOR | | |
| | Q 705 | 2SD601A(RS) | TRANSISTOR | | |
| | Q 706 | 2SD601A(RS) | TRANSISTOR | | |
| | Q 708 | UN2213 | TRANSISTOR | | |
| | Q 709 | 2SD601A(RS) | TRANSISTOR | | |
| | Q 710 | 2SD601A(RS) | TRANSISTOR | | |
| | Q 711 | 2SD601A(RS) | TRANSISTOR | | |
| | Q 714 | 2SD601A(RS) | TRANSISTOR | | |
| | Q 715 | 2SB1322(RS) | TRANSISTOR | | |
| | Q 716 | 2SB1322(RS) | TRANSISTOR | | |
| | Q 720 | UN2111 | TRANSISTOR | | |
| | Q 722 | 2SD882(P,Q) | TRANSISTOR | | |
| | Q 723 | 2SB1322(RS) | TRANSISTOR | | |
| | Q 724 | 2SD601A(RS) | TRANSISTOR | | |
| | Q 725 | 2SD1994(R,S) | TRANRISTOR | | |
| | Q 726 | UN2213 | TRANSISTOR | | |
| | Q 727 | 2SD601A(RS) | TRANSISTOR | | |
| | Q 771 | 2SA1362GR | TRANSISTOR | | |
| | Q 772 | 2SB709(Q,R) | TRANSISTOR | | |
| | Q 773 | 2SD601A(RS) | TRANSISTOR | | |
| | Q 774 | 2SD601A(RS) | TRANSISTOR | | |
| | Q 775 | 2SB709(Q,R) | TRANSISTOR | | |
| | Q 892 | UN2211 | TRANSISTOR | | |
| | Q 901 | UN2213 | TRANSISTOR | METAL | |
| | Q 911 | 2SD601A(RS) | TRANSISTOR | | |
| | Q 912 | 2SK303(V2,V3) | FET | | |
| | Q 941 | 2SB815B7-T-HL | TRANSISTOR | | |
| | Q 942 | 2SD1994(R,S) | TRANRISTOR | | |
| | Q 943 | 2SB815B7-T-HL | TRANSISTOR | | |
| | Q 944 | UN2213 | TRANSISTOR | | |
| | Q 945 | 2SD601A(RS) | TRANSISTOR | | |
| | Q 946 | 2SD1266(P,Q) | TRANSISTOR | | |
| | Q 949 | 2SD1994(R,S) | TRANRISTOR | | |
| | Q 950 | 2SB709(Q,R) | TRANSISTOR | | |
| | Q 951 | 2SB709(Q,R) | TRANSISTOR | | |
| | Q 952 | UN2213 | TRANSISTOR | | |
| | Q 961 | 2SD601A(RS) | TRANSISTOR | | |
| | R 101 | NRSA02J-334NY | MG RESISTOR | 330K 5% 1/10W | |
| | R 102 | NRSA02J-822NY | MG REAIATOR | 8.2K 5% 1/10W | |
| | R 103 | NRSA02J-121NY | MG RESISTOR | 120 5% 1/10W | |
| | R 104 | NRSA02J-622NY | MG RESISTOR | 6.2K 5% 1/10W | |
| | R 105 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 106 | NRSA02J-0R0NY | MG RESISTOR | 5% 1/10W | |
| | R 121 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 122 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 123 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 124 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 125 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 126 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 127 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 131 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 132 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 133 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 134 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 135 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 136 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 137 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 161 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 162 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 163 | NRSA02J-105NY | MG RESISTOR | 1.0M 5% 1/10W | |
| | R 164 | NRSA02J-105NY | MG RESISTOR | 1.0M 5% 1/10W | |
| | R 165 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 166 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 167 | NRSA02J-105NY | MG RESISTOR | 1.0M 5% 1/10W | |
| | R 168 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 169 | NRSA02J-0R0NY | MG RESISTOR | 5% 1/10W | |
| | R 171 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 172 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 173 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 174 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 175 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 176 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 177 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 178 | NRSA02J-101NY | MG RESISTOR | 100 5% 1/10W | |
| | R 191 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 192 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 195 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 196 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 197 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 198 | NRSA02J-101NY | MG RESISTOR | 100 5% 1/10W | |
| | R 201 | NRSA02J-334NY | MG RESISTOR | 330K 5% 1/10W | |
| | R 202 | NRSA02J-822NY | MG REAIATOR | 8.2K 5% 1/10W | |
| | R 203 | NRSA02J-121NY | MG RESISTOR | 120 5% 1/10W | |
| | R 204 | NRSA02J-622NY | MG RESISTOR | 6.2K 5% 1/10W | |
| | R 205 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 206 | NRSA02J-0R0NY | MG RESISTOR | 5% 1/10W | |
| | R 221 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 222 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 223 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 224 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 225 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 226 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 227 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 231 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 232 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 233 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 234 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 235 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 236 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 237 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 261 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 262 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 263 | NRSA02J-105NY | MG RESISTOR | 1.0M 5% 1/10W | |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 264 | NRSA02J-105NY | MG RESISTOR | 1.0M 5% 1/10W | |
| | R 265 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 266 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 267 | NRSA02J-105NY | MG RESISTOR | 1.0M 5% 1/10W | |
| | R 268 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 269 | NRSA02J-0RONY | MG RESISTOR | 5% 1/10W | |
| | R 271 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 272 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 273 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 274 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 275 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 276 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 277 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 278 | NRSA02J-101NY | MG RESISTOR | 100 5% 1/10W | |
| | R 291 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 292 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 295 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 296 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 297 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 298 | NRSA02J-101NY | MG RESISTOR | 100 5% 1/10W | |
| | R 331 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 341 | NRSA02J-333NY | MG RESISTOR | 33K 5% 1/10W | |
| | R 342 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| | R 431 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 441 | NRSA02J-333NY | MG RESISTOR | 33K 5% 1/10W | |
| | R 442 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| | R 530 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 531 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 532 | NRSA02J-333NY | MG RESISTOR | 33K 5% 1/10W | |
| | R 533 | NRSA02J-333NY | MG RESISTOR | 33K 5% 1/10W | |
| | R 534 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 535 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| | R 536 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 537 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 538 | NRSA02J-183NY | MG RESISTOR | 18K 5% 1/10W | |
| | R 539 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 540 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 541 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| | R 549 | NRSA02J-101NY | MG RESISTOR | 100 5% 1/10W | |
| | R 581 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 582 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 583 | NRSA02J-334NY | MG RESISTOR | 330K 5% 1/10W | |
| | R 584 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 585 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 586 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 587 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 701 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 702 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 703 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 704 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 705 | NRSA02J-682NY | MG RESISTOR | 6.8K 5% 1/10W | |
| | R 706 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 707 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 708 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 709 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 710 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 711 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 712 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 713 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 714 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 715 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 716 | NRSA02J-182NY | MG RESISTOR | 1.8K 5% 1/10W | |
| | R 717 | NRSA02J-182NY | MG RESISTOR | 1.8K 5% 1/10W | |
| | R 718 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 719 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 720 | NRSA02J-182NY | MG RESISTOR | 1.8K 5% 1/10W | |
| | R 721 | NRSA02J-392NY | MG RESISTOR | 3.9K 5% 1/10W | |
| | R 723 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 724 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 725 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 726 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 727 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| | R 728 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 729 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 730 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 731 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 732 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| | R 733 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 734 | NRSA02J-392NY | MG RESISTOR | 3.9K 5% 1/10W | |
| | R 735 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 736 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 737 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 738 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 739 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 740 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 741 | NRSA02J-392NY | MG RESISTOR | 3.9K 5% 1/10W | |
| | R 742 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 743 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 745 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 746 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 747 | QRD14AJ-102Y | C.RESISTOR | 1.0K 5% 1/4W | |
| | R 748 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 749 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 750 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 751 | QRG019J-181A | OMF RESISTOR | 180 5% 1/1W | |
| | R 752 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 753 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 754 | NRSA02J-333NY | MG RESISTOR | 33K 5% 1/10W | |
| | R 756 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 757 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 758 | NRSA02J-391NY | MG RESISTOR | 390 5% 1/10W | |
| | R 759 | NRSA02J-391NY | MG RESISTOR | 390 5% 1/10W | |
| | R 760 | NRSA02J-391NY | MG RESISTOR | 390 5% 1/10W | |
| | R 761 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 762 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 763 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 764 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 765 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 766 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 767 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 768 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 770 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 771 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 772 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 780 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 781 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 782 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 783 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 784 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 785 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 786 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 787 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 788 | NRSA02J-471NY | MG RESISTOR | 470 5% 1/10W | |
| | R 789 | NRSA02J-471NY | MG RESISTOR | 470 5% 1/10W | |
| | R 790 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 791 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 792 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 793 | NRSA02J-471NY | MG RESISTOR | 470 5% 1/10W | |
| | R 794 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 795 | NRSA02J-333NY | MG RESISTOR | 33K 5% 1/10W | |
| | R 796 | NRSA02J-333NY | MG RESISTOR | 33K 5% 1/10W | |
| | R 799 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 891 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 892 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 893 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 895 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 901 | NRSA02J-121NY | MG RESISTOR | 120 5% 1/10W | |
| | R 902 | NRSA02J-682NY | MG RESISTOR | 6.8K 5% 1/10W | |
| | R 903 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 911 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 912 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 913 | NRSA02J-330NY | MG RESISTOR | 33 5% 1/10W | |
| | R 914 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 915 | NRSA02J-334NY | MG RESISTOR | 330K 5% 1/10W | |
| | R 916 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 917 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 918 | NRSA02J-334NY | MG RESISTOR | 330K 5% 1/10W | |
| | R 919 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 920 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 921 | NRSA02J-681NY | MG RESISTOR | 680 5% 1/10W | |
| | R 923 | NRSA02J-100NY | MG RESISTOR | 10 5% 1/10W | |
| | R 924 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 931 | NRSA02J-681NY | MG RESISTOR | 680 5% 1/10W | |
| | R 933 | NRSA02J-100NY | MG RESISTOR | 10 5% 1/10W | |
| | R 934 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 940 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 941 | NRSA02J-330NY | MG RESISTOR | 33 5% 1/10W | |
| | R 942 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | |
| | R 943 | NRSA02J-272NY | MG RESISTOR | 2.7K 5% 1/10W | |
| | R 944 | NRSA02J-822NY | MG REAIATOR | 8.2K 5% 1/10W | |
| | R 945 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 946 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 947 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 948 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 949 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 950 | NRSA02J-152NY | MG RESISTOR | 1.5K 5% 1/10W | |
| | R 951 | QRD161J-221 | CARBON RESISTOR | 220 5% 1/6W | |
| | R 952 | NRSA02J-392NY | MG RESISTOR | 3.9K 5% 1/10W | |
| | R 953 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 954 | QRD161J-1R0 | CARBON RESISTOR | 1.0 5% 1/6W | |
| | R 957 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 958 | NRSA02J-332NY | MG RESISTOR | 3.3K 5% 1/10W | |
| | R 959 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 960 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 961 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 962 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 963 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 964 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 965 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 966 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 967 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 968 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 969 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 971 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 991 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | RY942 | VSK1D12-118 | RELAY | | |
| | TC701 | QAT3722-200ZM | T CAPACITOR | | |
| | TP704 | VMC0075-003N | CONNECTOR | | |
| | TP705 | VMC0075-003N | CONNECTOR | | |
| | VR701 | VCV5012-223 | SEMI V RESISTOR | | |
| | X 701 | VCX5024-001 | CRYSTAL | | |
| | X 781 | VCX5025-001 | CRYSTAL | | |

## ■ DOLBY NR Board

1 2 3 4 5

A B C D E F

Pattern Side

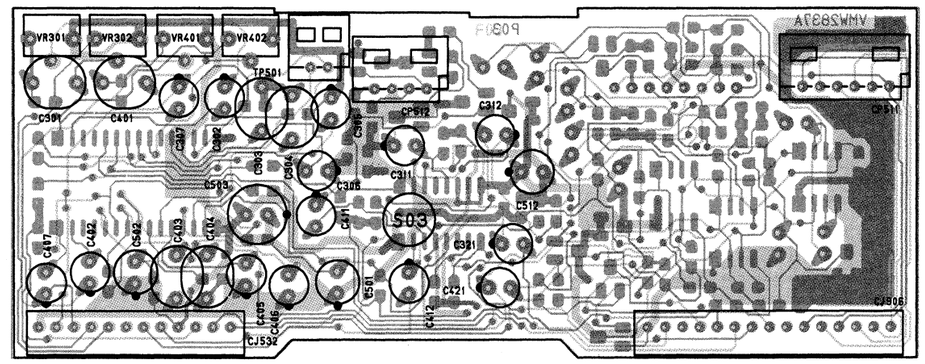



Fig. 8-6

Parts Side

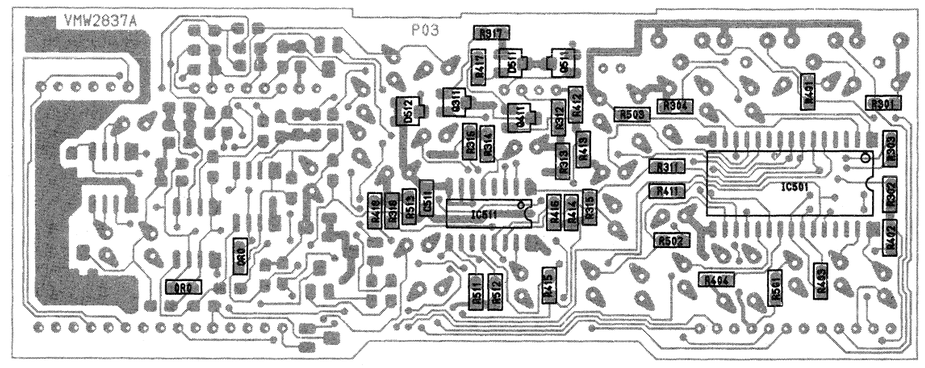



Fig. 8-7

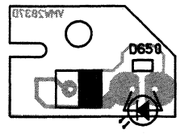



Fig. 8-8

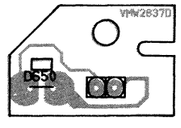



Fig. 8-9

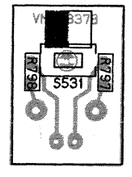



Fig. 8-10

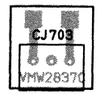



Fig. 8-11

## ● DOLBY NR Board Parts List

BLOCK NO. 04

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 301 | QFN41HJ-332 | M CAPACITOR | 3300PF 5% 50V | |
| | C 302 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | |
| | C 303 | QFN41HJ-222 | M CAPACITOR | 2200PF 5% 50V | |
| | C 304 | QFN41HJ-222 | M CAPACITOR | 2200PF 5% 50V | |
| | C 305 | QERF1HM-564ZM | E CAPACITOR | .56MF 20% 50V | |
| | C 306 | QER41HM-334VM | E CAPACITOR | .33MF 20% 50V | |
| | C 307 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | |
| | C 311 | QER41EM-475VM | E CAPACITOR | 4.7MF 20% 25V | |
| | C 312 | QER41EM-475VM | E CAPACITOR | 4.7MF 20% 25V | |
| | C 321 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | |
| | C 401 | QFN41HJ-332 | M CAPACITOR | 3300PF 5% 50V | |
| | C 402 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | |
| | C 403 | QFN41HJ-222 | M CAPACITOR | 2200PF 5% 50V | |
| | C 404 | QFN41HJ-222 | M CAPACITOR | 2200PF 5% 50V | |
| | C 405 | QERF1HM-564ZM | E CAPACITOR | .56MF 20% 50V | |
| | C 406 | QER41HM-334VM | E CAPACITOR | .33MF 20% 50V | |
| | C 407 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | |
| | C 411 | QER41EM-475VM | E CAPACITOR | 4.7MF 20% 25V | |
| | C 412 | QER41EM-475VM | E CAPACITOR | 4.7MF 20% 25V | |
| | C 421 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | |
| | C 501 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | |
| | C 502 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | |
| | C 503 | QER41CM-476M | E CAPACITOR | 47MF 20% 16V | |
| | C 511 | NCB21EK-473AY | C CAPACITOR | .047MF 10% 25V | |
| | C 512 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | |
| | CJ531 | VMC0136-003 | CONNECTOR | | |
| | CJ532 | VMC0136-012 | CONNECTOR | | |
| | CJ906 | VMC0136-015 | CONNECTOR | | |
| | CP511 | VMC0064-006 | CONNECTOR | CHANGER | |
| | CP512 | VMC0064-004 | CONNECTOR | CHANGER | |
| | D 511 | HSM2836C | DIODE | | |
| | D 512 | MA3039(L) | Z DIODE | | |
| | D 650 | LN41YCPH | LED | | |
| | IC501 | CXA1332M | IC | | |
| | IC511 | UPD4052BG | IC | | |
| | Q 311 | 2SD1048X-6HL | TRANSISTOR | | |
| | Q 411 | 2SD1048X-6HL | TRANSISTOR | | |
| | Q 511 | UN2213 | TRANSISTOR | | |
| | R 301 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| | R 302 | NRSA02J-183NY | MG RESISTOR | 18K 5% 1/10W | |
| | R 303 | NRSA02J-243NY | EC CAPACITOR | 24K 5% 1/10W | |
| | R 304 | NRSA02J-561NY | MG RESISTOR | 560 5% 1/10W | |
| | R 311 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| | R 312 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| | R 313 | NRSA02J-393NY | MG RESISTOR | 39K 5% 1/10W | |
| | R 314 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 315 | NRSA02J-183NY | MG RESISTOR | 18K 5% 1/10W | |
| | R 316 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 317 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 318 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 401 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |
| | R 402 | NRSA02J-183NY | MG RESISTOR | 18K 5% 1/10W | |
| | R 403 | NRSA02J-243NY | EC CAPACITOR | 24K 5% 1/10W | |
| | R 404 | NRSA02J-561NY | MG RESISTOR | 560 5% 1/10W | |
| | R 411 | NRSA02J-123NY | MG RESISTOR | 12K 5% 1/10W | |

BLOCK NO. 04

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 412 | NRSA02J-153NY | MG RESISTOR | 15K 5% 1/10W | |
| | R 413 | NRSA02J-393NY | MG RESISTOR | 39K 5% 1/10W | |
| | R 414 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 415 | NRSA02J-183NY | MG RESISTOR | 18K 5% 1/10W | |
| | R 416 | NRSA02J-104NY | MG RESISTOR | 100K 5% 1/10W | |
| | R 417 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | |
| | R 418 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 501 | NRSA02J-682NY | MG RESISTOR | 6.8K 5% 1/10W | |
| | R 502 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 503 | NRSA02J-273NY | MG RESISTOR | 27K 5% 1/10W | |
| | R 511 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 512 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 513 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 797 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 798 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | S 531 | QSP1A11-V06A | TACT SWITCH | RESET | |
| | TP501 | VMC0075-R02N | CONNECTOR | | |
| | VR301 | QVPA603-223A | SEMI.V.RESISTOR | | |
| | VR302 | QVPA603-223A | SEMI.V.RESISTOR | | |
| | VR401 | QVPA603-223A | SEMI.V.RESISTOR | | |
| | VR402 | QVPA603-223A | SEMI.V.RESISTOR | | |

## ■ Indicator/Switch Board

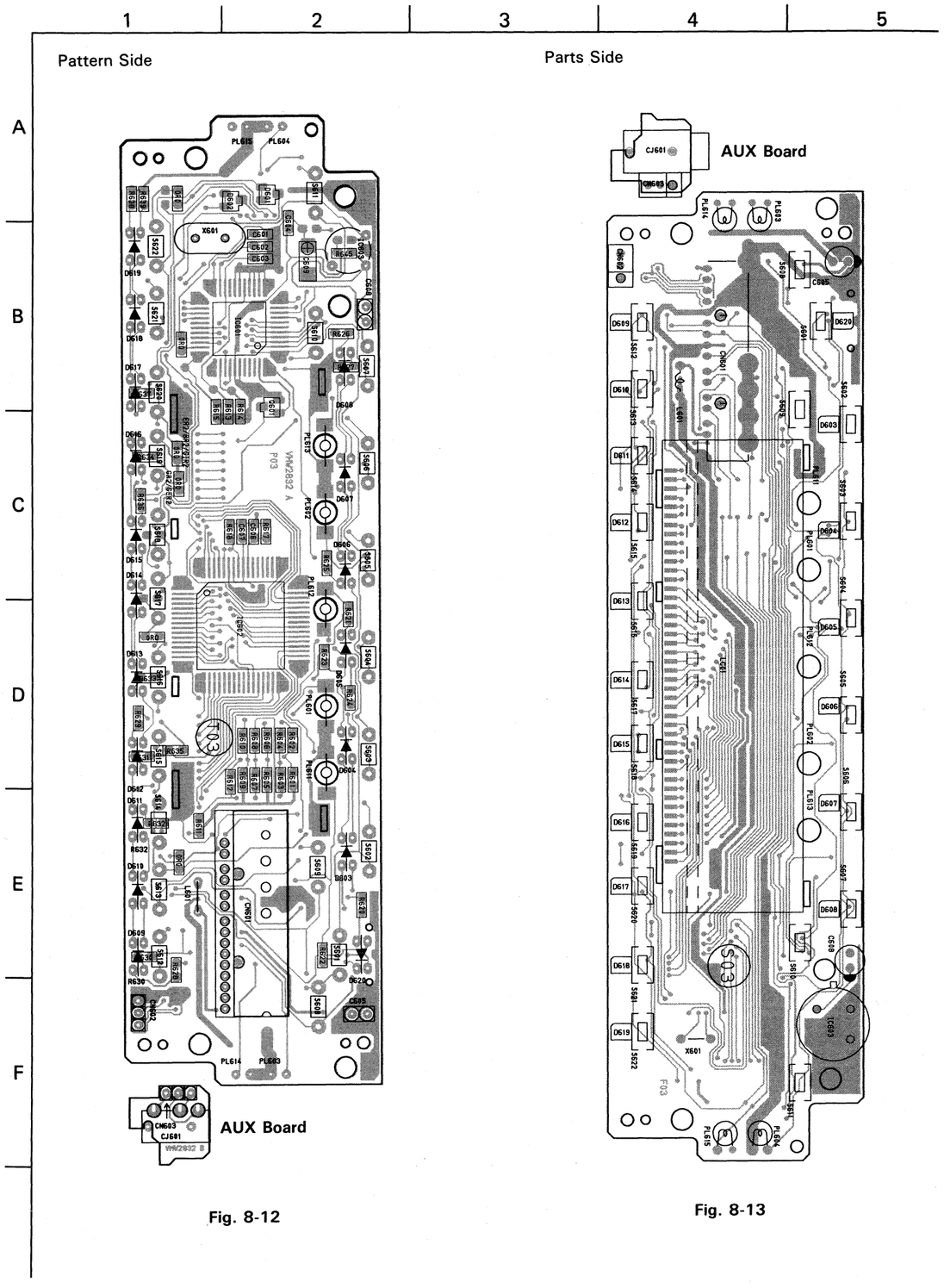



Fig. 8-12

Fig. 8-13

## • Indicator/Switch Board Parts List

BLOCK NO. 05

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 601 | NCT21CH-220AY | C CAPACITOR | 22PF +50:-10% 1 | |
| | C 602 | NCT21CH-220AY | C CAPACITOR | 22PF +50:-10% 1 | |
| | C 603 | NCB21EK-223AY | C CAPACITOR | .022MF 10% 25V | |
| | C 604 | NCB21EK-223AY | C CAPACITOR | .022MF 10% 25V | |
| | C 605 | QER40JM-476VM | C.CAPACITOR | 47MF 20% 6.3V | |
| | C 606 | NCS21HJ-681AY | C CAPACITOR | 680PF 5% 50V | |
| | C 607 | NCB21EK-223AY | C CAPACITOR | .022MF 10% 25V | |
| | C 608 | QER40JM-476VM | C.CAPACITOR | 47MF 20% 6.3V | |
| | C 609 | QEF81AM-475W | TS.E.CAPACITOR | 4.7MF 20% 10V | |
| | CJ601 | VMJ4022-001 | JACK | AUX JACK | |
| | CN601 | VMC0222-015N | CONNECTOR | | |
| | D 601 | HSM2838C | DIODE | | |
| | D 602 | HSM2838C | DIODE | | |
| | D 603 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 604 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 605 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 606 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 607 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 608 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 609 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 610 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 611 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 612 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 613 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 614 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 615 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 616 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 617 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 618 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 619 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | D 620 | LN02102C46-LF2 | LED | TWO COLORS LED | |
| | IC601 | UPD75004GB-687 | IC | | |
| | IC602 | LC7582A | IC | | |
| | IC603 | BX-1408 | IC | | |
| | L 601 | VQP0018-101 | INDUCTOR | | |
| | LCD 1 | VGL1092-002 | LCD | | |
| | PL601 | VGZ0001-037 | LAMP | | |
| | PL602 | VGZ0001-037 | LAMP | | |
| | PL603 | VGZ0001-037 | LAMP | | |
| | PL604 | VGZ0001-037 | LAMP | | |
| | PL611 | VGZ0001-038 | LAMP | | |
| | PL612 | VGZ0001-038 | LAMP | | |
| | PL613 | VGZ0001-038 | LAMP | | |
| | PL614 | VGZ0001-038 | LAMP | | |
| | PL615 | VGZ0001-038 | LAMP | | |
| | Q 601 | UN2111 | TRANSISTOR | | |
| | R 601 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 602 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 603 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 604 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 605 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 606 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 607 | NRSA02J-102NY | MG RESISTOR | 1.0K 5% 1/10W | |
| | R 608 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 609 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |

BLOCK NO. 05

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 610 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 611 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 612 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 613 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 614 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 615 | NRSA02J-103NY | MG RESISTOR | 10K 5% 1/10W | |
| | R 617 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | |
| | R 618 | NRSA02J-223NY | MG RESISTOR | 22K 5% 1/10W | |
| | R 620 | NRSA02J-271NY | MG RESISTOR | 270 5% 1/10W | |
| | R 621 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| | R 622 | NRSA02J-391NY | MG RESISTOR | 390 5% 1/10W | |
| | R 623 | NRSA02J-391NY | MG RESISTOR | 390 5% 1/10W | |
| | R 624 | NRSA02J-271NY | MG RESISTOR | 270 5% 1/10W | |
| | R 625 | NRSA02J-271NY | MG RESISTOR | 270 5% 1/10W | |
| | R 626 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| | R 627 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| | R 628 | NRSA02J-271NY | MG RESISTOR | 270 5% 1/10W | |
| | R 629 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| | R 630 | NRSA02J-391NY | MG RESISTOR | 390 5% 1/10W | |
| | R 631 | NRSA02J-271NY | MG RESISTOR | 270 5% 1/10W | |
| | R 632 | NRSA02J-391NY | MG RESISTOR | 390 5% 1/10W | |
| | R 633 | NRSA02J-271NY | MG RESISTOR | 270 5% 1/10W | |
| | R 634 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| | R 635 | NRSA02J-271NY | MG RESISTOR | 270 5% 1/10W | |
| | R 636 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| | R 637 | NRSA02J-391NY | MG RESISTOR | 390 5% 1/10W | |
| | R 638 | NRSA02J-391NY | MG RESISTOR | 390 5% 1/10W | |
| | R 639 | NRSA02J-331NY | MG RESISTOR | 330 5% 1/10W | |
| | R 645 | NRSA02J-221NY | MG RESISTOR | 220 5% 1/10W | |
| | S 601 | QSP1A11-V15 | TACT SWITCH | | |
| | S 602 | QSP1A11-V06A | TACT SWITCH | | |
| | S 603 | QSP1A11-V06A | TACT SWITCH | | |
| | S 604 | QSP1A11-V06A | TACT SWITCH | | |
| | S 605 | QSP1A11-V06A | TACT SWITCH | | |
| | S 606 | QSP1A11-V06A | TACT SWITCH | | |
| | S 607 | QSP1A11-V06A | TACT SWITCH | | |
| | S 608 | QSP1A11-V06A | TACT SWITCH | | |
| | S 609 | QSP1A11-V06A | TACT SWITCH | | |
| | S 610 | QSP1A11-V06A | TACT SWITCH | | |
| | S 611 | QSP1A11-V06A | TACT SWITCH | | |
| | S 612 | QSP1A11-V06A | TACT SWITCH | | |
| | S 613 | QSP1A11-V06A | TACT SWITCH | | |
| | S 614 | QSP1A11-V06A | TACT SWITCH | | |
| | S 615 | QSP1A11-V06A | TACT SWITCH | | |
| | S 616 | QSP1A11-V06A | TACT SWITCH | | |
| | S 617 | QSP1A11-V06A | TACT SWITCH | | |
| | S 618 | QSP1A11-V06A | TACT SWITCH | | |
| | S 619 | QSP1A11-V06A | TACT SWITCH | | |
| | S 620 | QSP1A11-V06A | TACT SWITCH | | |
| | S 621 | QSP1A11-V06A | TACT SWITCH | | |
| | S 622 | QSP1A11-V06A | TACT SWITCH | | |
| | X 601 | VCX5024-001 | CRYSTAL | | |

## ■ SK/DK Board (G/GE version only)

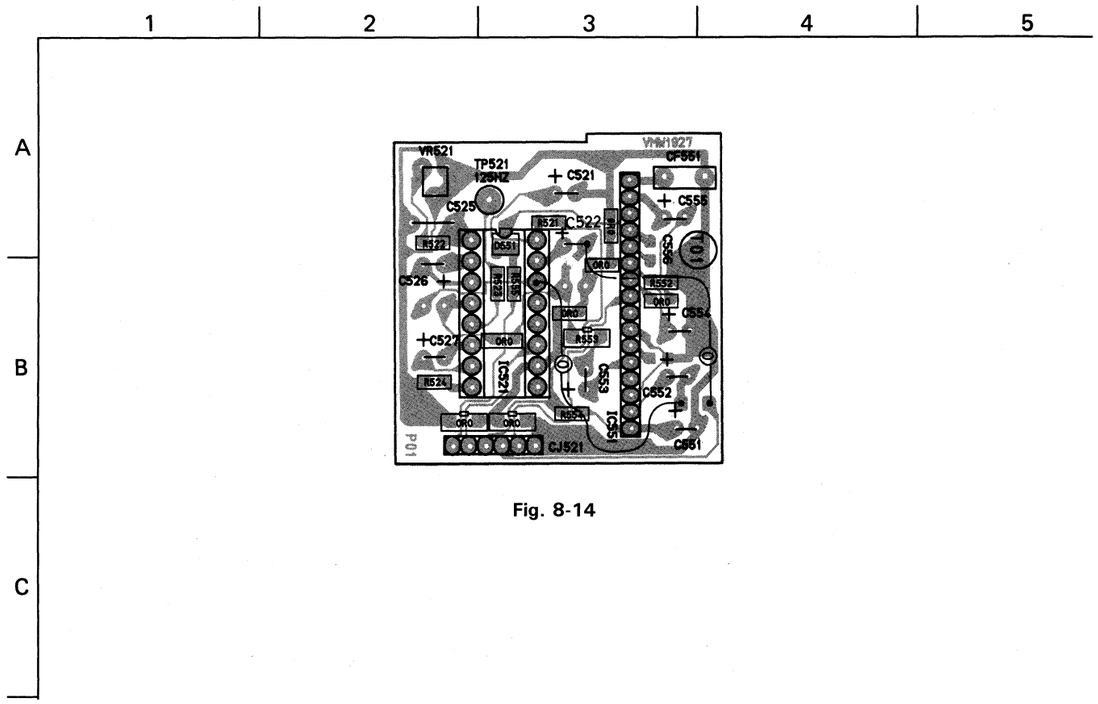



Fig. 8-14

## ● SK/DK Board Parts List

BLOCK NO. 08

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | B 558 | NRSA02J-0R0NY | MG RESISTOR | 5% 1/10W | G,GE |
| | C 521 | QER41CM-476M | E CAPACITOR | 47MF 20% 16V | G,GE |
| | C 522 | QER41HM-105VM | E CAPACITOR | 1.0MF 20% 50V | G,GE |
| | C 525 | QFV81HJ-683 | TF CAPACITOR | .068MF 5% 50V | G,GE |
| | C 526 | QER41EM-475VM | E CAPACITOR | 4.7MF 20% 25V | G,GE |
| | C 527 | QER41CM-226VM | E CAPACITOR | 22MF 20% 16V | G,GE |
| | C 551 | QER41CM-476M | E CAPACITOR | 47MF 20% 16V | G,GE |
| | C 552 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | G,GE |
| | C 553 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | G,GE |
| | C 554 | QER41CM-226VM | E CAPACITOR | 22MF 20% 16V | G,GE |
| | C 555 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | G,GE |
| | CF551 | CSB456F11 | CELA LOCK | | G,GE |
| | CJ521 | VMC0136-006 | CONNECTOR | | G,GE |
| | D 551 | HSM2838C | DIODE | | G,GE |
| | IC521 | AN7410N | IC | DK | G,GE |
| | IC551 | SK62053 | IC | SK | G,GE |
| | R 521 | NRSA02J-470NY | MG RESISTOR | 47 5% 1/10W | G,GE |
| | R 522 | NRSA02J-243NY | EC CAPACITOR | 24K 5% 1/10W | G,GE |
| | R 523 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | G,GE |
| | R 524 | NRSA02J-472NY | MG RESISTOR | 4.7K 5% 1/10W | G,GE |
| | R 552 | NRSA02J-473NY | MG REGISTOR | 47K 5% 1/10W | G,GE |
| | R 553 | NRS18J-470NY | MG RESISTOR | 47 5% 1/8W | G,GE |
| | R 554 | NRSA02J-330NY | MG RESISTOR | 33 5% 1/10W | G,GE |
| | R 555 | NRSA02J-222NY | MG RESISTOR | 2.2K 5% 1/10W | G,GE |
| | TP551 | VMZ0015-002 | POST PIN | | |
| | VR521 | VCV5015-682 | V RESISTOR | | G,GE |

## ■ Mechanism Switch/Sensor Board

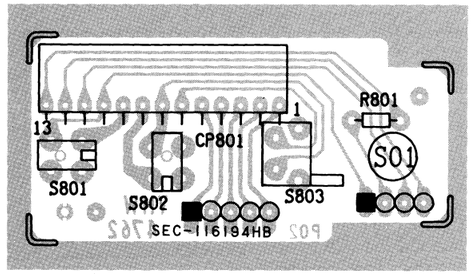



Fig. 8-15

## ■ Drive Board

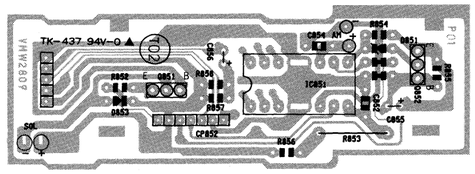


Fig. 8-16

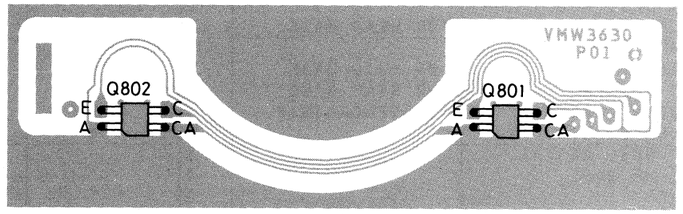



Fig. 8-17

## ● Mechanism Switch/ Sensor Board Parts List

BLOCK NO. 06

| ⚠ REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|
| CP801 | VMC0064-013 | CONNECTOR | | |
| CP802 | VMC0064-003 | CONNECTOR | | |
| Q 801 | NJL5163K(A,B) | PHOTO CAPLOR | | |
| Q 802 | NJL5163K(A,B) | PHOTO CAPLOR | | |
| R 801 | QRD161J-681 | C RESISTOR | 680 5% 1/6W | |
| S 801 | QSP2K21-V01 | PUSH SWITCH | | |
| S 802 | QSP2K21-V01 | PUSH SWITCH | | |
| S 803 | VSH1153-001 | SWITCH | | |

## ● Drive Board Parts List

BLOCK NO. 07

| ⚠ REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|
| C 852 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| C 854 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| C 855 | QER41CM-106M | E CAPACITOR | 10MF 20% 16V | |
| C 856 | QER41CM-226VM | E CAPACITOR | 22MF 20% 16V | |
| CP852 | VMC0064-007 | CONNECTOR | | |
| D 851 | MA4068(L) | Z DIODE | | |
| D 853 | HSS104TJ | SI DIODE | | |
| IC851 | LB1648 | IC | | |
| Q 851 | 2SD1994(R,S) | TRANRISTOR | | |
| Q 852 | 2SD1994(R,S) | TRANRISTOR | | |
| R 852 | QRD161J-822 | CARBON RESISTOR | 8.2K 5% 1/6W | |
| R 853 | QRD121J-100 | CARBON RESISTOR | 10 5% 1/2W | |
| R 854 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R 855 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R 856 | QRD161J-2R2 | CARBON RESISTOR | 2.2 5% 1/6W | |
| R 857 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R 858 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |

# 9 Exploded View of Mechanism Component Parts and Parts List

## • Mechanism Parts List

BLOCK NO. M1MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | 1 | VKL1273-00B | CHASSIS ASS'Y | | 1 | | |
| | 2 | VKH5078-001 | COLLAR | | 1 | | |
| | 3 | WDL122525-4 | SLIT WASHER | FOR CHASSIS | 1 | | |
| | 4 | VKS5040-002 | BRAKE F | | 1 | | |
| | 5 | VKS5041-002 | BRAKE R | | 1 | | |
| | 6 | VKW3001-220 | COMP.SPRING | FOR BRAKE F/R | 2 | | |
| | 7 | VKL6324-001 | T.U.LEVER(FWD) | | 1 | | |
| | 8 | VKL6325-001 | T.U.LEVER(REV) | | 1 | | |
| | 9 | VKL6326-00B | LOCK ARM ASS'Y | | 1 | | |
| | 10 | VKW3002-243 | TENSION SPRING | LOCK ARM-CHASSI | 1 | | |
| | 11 | VKL6327-001 | ACTUATOR PLATE | | 1 | | |
| | 12 | VKS5042-001 | ACTUATOR RACK | | 1 | | |
| | 13 | SPSK2020M | MINI SCREW | FOR ACT.RACK | 2 | | |
| | 14 | VKL2346-00C | HEAD BASE ASS'Y | | 1 | | |
| | 15 | VKH5078-002 | COLLAR | FOR HEAD BASE | 1 | | |
| | 16 | WFM163213 | WASHER | | 1 | | |
| | 17 | VKH3000-136 | COLLAR | FOR HEAD BASE | 1 | | |
| | 18 | WDL122525-4 | SLIT WASHER | FOR HEAD BASE | 1 | | |
| | 19 | VKW3002-230 | TENSION SPRING | H.BASE-CHASSIS | 1 | | |
| | 20 | VKL3942-00A | H.M.BASE ASS'Y | | 1 | | |
| | 21 | VKL2349-00A | DISK BASE ASS'Y | | 1 | | |
| | 22 | VKL6330-00A | TAKE-UP BASE | | 1 | | |
| | 23 | WDL316025-4 | WASHER | | 1 | | |
| | 24 | VKR4487-00A | DRIVE CL.ASS'Y | | 1 | | |
| | 25 | WDL173525-0 | SLIT WASHER | FOR DRIVE CL. | 1 | | |
| | 26 | VKR4491-00A | REEL DISK ASS'Y | | 2 | | |
| | 27 | WDL123025-0 | SLIT WASHER | FOR REEL DISK | 2 | | |
| | 28 | VKB3000-115 | BELT | | 1 | | |
| | 29 | VKS3346-001 | BELT HANGER | FOR BELT | 1 | | |
| | 30 | VKR4495-00B | TAKE-UP CLUTCH | | 1 | | |
| | 31 | WFM163025 | WASHER | FOR T.U.CL. | 1 | | |
| | 32 | VKL6332-00A | F/R BASE ASS'Y | | 1 | | |
| | 33 | WDL123025-0 | WASHER | | 1 | | |
| | 34 | VKL3945-00A | A.GEAR BRACKET | | 1 | | |
| | 35 | VKS5044-001 | CAM GEAR | | 1 | | |
| | 36 | WDL122525-6 | SLIT WASHER | FOR A.GEAR(2) | 1 | | |
| | 37 | VKZ3143-00C | MODE SWITCH | | 1 | | |
| | 38 | SPSK2020M | MINI SCREW | FOR MODE SWITCH | 2 | | |
| | 39 | VKS5045-001 | A.GEAR (3) | | 1 | | |
| | 40 | VKS3322-001 | CAM GEAR | | 1 | | |
| | 41 | WDL122525-4 | SLIT WASHER | FOR A.GEAR (3) | 1 | | |
| | 42 | VKL6334-00A | DIR.L.BBRACKET | | 1 | | |
| | 43 | WDL122525-4 | SLIT WASHER | FOR DIR.LEV.BKT | 1 | | |
| | 44 | SPSK2020M | MINI SCREW | FOR DIR.LEV.BKT | 1 | | |
| | 45 | VKL6336-00B | DIR.LEVER ASS'Y | | 1 | | |
| | 46 | WDL122525-4 | WASHER | | 1 | | |
| | 47 | MDN-4RB7MYA-1 | A.MOTOR | | 1 | | |
| | 49 | VKS5046-002 | A.MOTOR BUSH | | 1 | | |
| | 50 | VKS5047-003 | A.GEAR (1) | | 1 | | |
| | 51 | SPSK2025M | MINI SCREW | FOR A.MOTOR | 2 | | |
| | 52 | YK30C-CB401 | PLAYBACK HEAD | | 1 | | |
| | 53 | VKZ4291-004 | SPECIAL SCREW | FOR PB HEAD | 2 | | |
| | 54 | VKW4733-002 | WIRE COVER | | 1 | | |
| | 55 | VYSA1R4-083 | SPACER | | 1 | | |

# 10 Exploded View of Enclosure Component Parts and Parts List

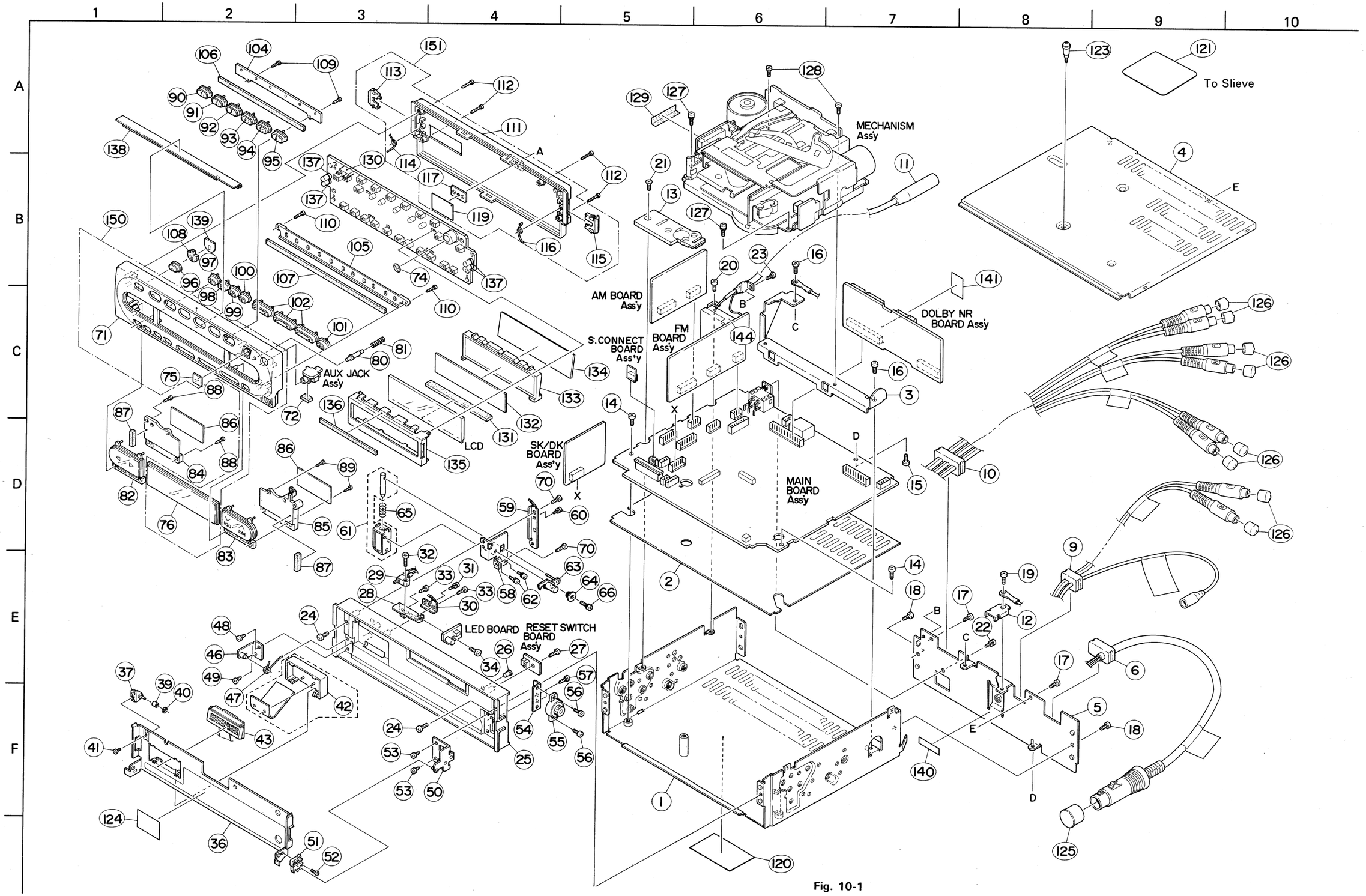



Fig. 10-1

BLOCK NO. M2MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | 1 | VKL1340-001 | CHASSIS | | 1 | | |
| | 2 | VMA3179-001 | INSULATOR | | 1 | | |
| | 3 | VKM3514-001 | MECHA BRACKET | | 1 | | |
| | 4 | VKM3515-001 | TOP COVER | | 1 | | |
| | 5 | VKM3528-002 | REAR BRACKET | | 1 | | |
| | 6 | VMP3209-001 | DIN CORD ASS'Y | 13PIN CORD | 1 | | |
| | 9 | VMP3210-001 | PIN CORD ASS'Y | LINE IN | 1 | | |
| | 10 | VMP3207-001 | PIN COD ASS'Y | LINE OUT/REMOTE | 1 | | |
| | 11 | VMP0029-009 | ANTENNA CORD | | 1 | | |
| | 12 | VKL7073-001 | PCB HOLDER | DOLBY BOARD | 1 | | |
| | 13 | VKS3476-004 | TUNER HOLDER | TUNER BOARD | 1 | | |
| | 14 | VKZ4131-010 | SPECIAL SCREW | MAIN BOARD | 2 | | |
| | 15 | SDST2605Z | SCREW | MAIM BOARD | 1 | | |
| | 16 | SDST2605Z | SCREW | MECHA. BRACKET | 2 | | |
| | 17 | SDSP2606Z | SCREW | TOP COVER | 2 | | |
| | 18 | SDST2605Z | SCREW | REAR BRACKET | 2 | | |
| | 19 | SDST2605Z | SCREW | PCB HOLDER D | 1 | | |
| | 20 | SDST2605Z | SCREW | S.PLATE | 1 | | |
| | 21 | SSST2605Z | SCREW | PCB HOLDER T | 1 | | |
| | 22 | LPSP3006Z | SCREW | 5PIN BONNECTOR | 1 | | |
| | 23 | SDST2605Z | SCREW | ANT CORD | 1 | | |
| | 24 | SDST2605M | SCREW | FRONT CHASSIS | 2 | | |
| | 25 | VJC2426-002 | FRONT CHASSIS | | 1 | | |
| | 26 | VXP5058-001 | RESET KNOB | | 1 | | |
| | 27 | SDSF2006Z | SCREW | RESET SWITCH | 1 | | |
| | 28 | VKL7170-002 | SWITCH BRACKET | | 1 | | |
| | 29 | VSH1142-001 | SWITCH | | 1 | | |
| | 30 | VMA4519-001 | EARTH PLATE(S) | | 1 | | |
| | 31 | LPSP2004Z | SCREW | E.PLATE + SW.BK | 1 | | |
| | 32 | SPSK2060Z | MINI SCREW | SW + SW.BKT | 1 | | |
| | 33 | SDSF2006Z | SCREW | | 2 | | |
| | 34 | SDSP2604Z | SCREW | SW BKT + LED PW | 1 | | |
| | 36 | VKL2599-002 | PANEL HOLDER | | 1 | | |
| | 37 | VKL7067-002 | HOOK | | 1 | | |
| | 39 | VKH5596-001 | COLLAR | HOOK PIN | 1 | | |
| | 40 | WDL163225-0 | SLIT WASHER | | 1 | | |
| | 41 | VKZ4586-002 | MINI SCREW | HOOK | 1 | | |
| | 42 | ZCKSCG10-COVER | CONNECTOR COVER | | 1 | | |
| | 43 | ZCKSCG10-CONN | CONNECTOR ASS'Y | | 1 | | |
| | 46 | VKL7061-00C | PANEL BRACKET | | 1 | | |
| | 47 | VKW4957-003 | HOLDER SPRING | | 1 | | |
| | 48 | SDSF2010M | SCREW | PNL BKT ASS'Y(L | 1 | | |
| | 49 | SDSF2006M | SCREW | PNL BKT ASS'Y | 1 | | |
| | 50 | VKL7063-00B | PANEL BRACKET | | 1 | | |
| | 51 | VKS5353-002 | HOLDER GEAR | | 1 | | |
| | 52 | SPSL2040M | MINI SCREW | H.GEAR+HOLDER | 1 | | |
| | 53 | SDSF2006M | SCREW | PNL BKT+F.CHASS | 2 | | |
| | 54 | VKL7171-001 | DAMPER BRACKET | | 1 | | |
| | 55 | VJY4035-00B | DAMPER ASS'Y | | 1 | | |
| | 56 | SDSP2004Z | SCREW | | 2 | | |
| | 57 | SDSF2006Z | SCREW | D.BKT+F.CHASSIS | 2 | | |
| | 58 | VKL7148-002 | SOLENOID BRACKE | | 1 | | |
| | 59 | VMA4518-002 | EARTH PLATE(L) | | 1 | | |
| | 60 | LPSP2004Z | SCREW | EARTH PLATE | 1 | | |
| | 61 | VGP2201-002 | DC SOLENOID | | 1 | | |

BLOCK NO. M2MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | 62 | VKZ4586-002 | MINI SCREW | SOLENOID | 2 | | |
| | 63 | VKL7150-00B | LOCK LEVER ASSY | | 1 | | |
| | 64 | VKH5500-003 | COLLOR | LOCK LEVER | 1 | | |
| | 65 | VKW3001-290 | COMP. SPRING | SOLENOID | 1 | | |
| | 66 | LPSP2608Z | SCREW | LOCK LEVER | 1 | | |
| | 70 | SPSF2006Z | SCREW | SOLENOID BRACKE | 2 | | |
| | 71 | VJG1007-015 | FRONT PANEL | | 1 | B,E,GI | |
| | | VJG1007-014 | FRONT PANEL | | 1 | G,GE | |
| | 72 | VYSH101-016 | SPACER | AUX JACK | 1 | | |
| | 74 | VYTT589-001 | SHEET | | 1 | | |
| | 75 | VJD5355-002 | FILTER | REMOTE | 1 | | |
| | 76 | VJK3551-001 | FINDER | | 1 | | |
| | 80 | VXP5057-001 | RESET BUTTON | | 1 | | |
| | 81 | VKW3001-289 | COMP.SPRING | RESET BUTTON | 1 | | |
| | 82 | VXP5050-00C | BUTTON ASS'Y(L) | | 1 | | |
| | 83 | VXP5053-00B | BUTTON ASS'Y(R) | | 1 | | |
| | 84 | VJK3555-001 | BUTTON LENS(L) | | 1 | | |
| | 85 | VJK3556-001 | BUTTON LENS(R) | | 1 | | |
| | 86 | VYTT590-001 | SEAL | BUTTON LANS | 2 | | |
| | 87 | VYSH104-043 | SPACER | | 2 | | |
| | 88 | SPSN1745N | MINI SCREW | B.LENS(L) | 2 | | |
| | 89 | SPSN1745N | MINI SCREW | B.LENS(R) | 2 | | |
| | 90 | VXP5054-007 | PRESET BUTTON | PRESET 1 | 1 | | |
| | 91 | VXP5054-008 | PRESET BUTTON | PRESET 2 | 1 | | |
| | 92 | VXP5054-009 | PRESET BUTTON | PRESET 3 | 1 | | |
| | 93 | VXP5054-010 | PRESET BUTTON | PRESET 4 | 1 | | |
| | 94 | VXP5054-011 | PRESET BUTTON | PRESET 5 | 1 | | |
| | 95 | VXP5054-012 | PRESET BUTTON | PRESET 6 | 1 | | |
| | 96 | VXP5055-001 | POWER BUTTON | | 1 | | |
| | 97 | VXP5055-002 | PUSH BUTTON | FUNCTION | 1 | | |
| | 98 | VXP5055-003 | PUSH BUTTON | SELECT | 1 | | |
| | 99 | VXP5055-004 | PUSH BUTTON | WOOFER | 1 | | |
| | 100 | VXP5055-005 | PUSH BUTTON | CLOCK | 1 | | |
| | 101 | VXP5055-006 | PUSH BUTTON | EJECT | 1 | | |
| | 102 | VXP5056-001 | PUSH BUTTON | | 3 | | |
| | 104 | VJK3571-002 | LIGHT LENS(U) | PRESET,POWER | 1 | | |
| | 105 | VJK3572-001 | LIGHT LENS(L) | | 1 | | |
| | 106 | VYSH102-070 | SPACER | B.LENS(U) | 1 | | |
| | 107 | VYSH102-069 | SPACER | B.LENS(L) | 1 | | |
| | 108 | VYTH495-001 | B.CUSHION(P) | POWER | 1 | | |
| | 109 | SPSN1745N | MINI SCREW | B.LENS(U) | 2 | | |
| | 110 | SPSN1745N | MINI SCREW | B.LENS(L) | 2 | | |
| | 111 | VJG1008-002 | REAR COVER | | 1 | | |
| | 112 | SPSN1780N | MINI SCREW | FRONT+REAR | 4 | | |
| | 113 | VKS3529-003 | LOCK CAM(L) | | 1 | | |
| | 114 | VKW4956-002 | LOCK SPRING | | 1 | | |
| | 115 | VKS3530-003 | LOCK CAM(R) | | 1 | | |
| | 116 | VKW4956-002 | LOCK SPRING | | 1 | | |
| | 117 | VKL7096-001 | TAP PLATE | | 1 | | |
| | 119 | VYSS1R4-035 | SPACER | | 1 | | |
| | 120 | VYN3311-001SA | NAME PLATE | | 1 | B,E | |
| | | VYN3311-003SA | NAME PLATE | | 1 | GI | |
| | | VYN3311-020SA | NAME PLATE | | 1 | G,GE | |
| | 121 | VND4163-004 | CAUTION LABEL | | 1 | | |

## ■ Mechanism

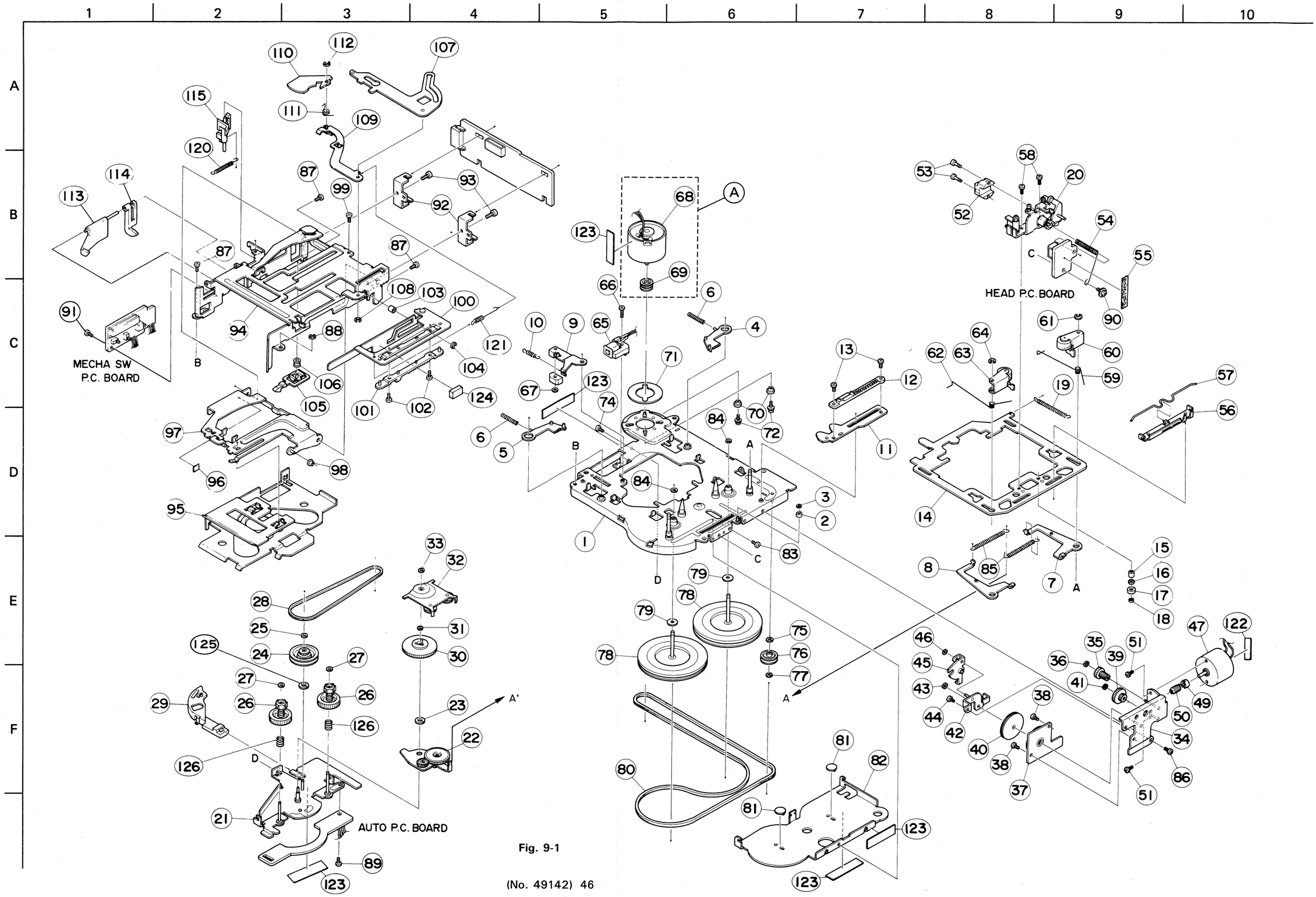



Fig. 9-1

BLOCK NO. M1MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | 56 | VKL6338-001 | DIRECTION PLATE | | 1 | | |
| | 57 | VKW4711-002 | P.R.SPRING | FOR DIR.PLATE | 1 | | |
| | 58 | SPSK2025M | MINI SCREW | FOR H.M.BASE | 2 | | |
| | 59 | VKW4712-001 | RETURN SPRING | FOR P.R.ASS'Y(F | 1 | | |
| | 60 | VKP4190-00C | P.R.ASS'Y (F) | | 1 | | |
| | 61 | REE1500X | E.RING | FOR P.R.ASS'Y(F | 1 | | |
| | 62 | VKW4713-001 | RETURN SPRING | FOR P.R.ASS'Y(R | 1 | | |
| | 63 | VKP4192-00C | P.R.ASS'Y (R) | | 1 | | |
| | 64 | REE1500X | E.RING | FOR P.R.ASS'Y(R | 1 | | |
| | 65 | VGP0706-002 | DC SOLENOID | | 1 | | |
| | 66 | SPSH2055M | MINI SCREW | FOR SOLENOID | 1 | | |
| | 67 | WDL163525-4 | SLIT WASHER | FOR FLAPPER | 1 | | |
| | 68 | MCI-5D3LA | CAPSTAN MOTOR | | 1 | | |
| | 69 | VKR4499-001 | MOTOR PULLEY | | 1 | | |
| | 70 | VKS5115-001 | MOTOR COLLAR | | 2 | | |
| | 71 | VKZ4483-004 | MOTOR SPACER | | 1 | | |
| | 72 | DPSP2005Z | SCREW | FOR CAPSTAN MOT | 2 | | |
| | 74 | SPSK2025M | MINI SCREW | FOR REEL UNIT | 1 | | |
| | 75 | WFM163013 | WASHER | | 1 | | |
| | 76 | VKR4500-001 | CENTER PULLEY | | 1 | | |
| | 77 | WDL122525-4 | SLIT WASHER | FOR C.PULLEY | 1 | | |
| | 78 | VKF4182-00B | F.W.ASS'Y | | 2 | | |
| | 79 | WFM197025 | WASHER | FOR F.W.ASS'Y | 2 | | |
| | 80 | VKB3000-114 | BELT | | 1 | | |
| | 81 | VKS5048-002 | THRUST HOLDER | | 2 | | |
| | 82 | VKL3947-001 | FW BRACKET | | 1 | | |
| | 83 | SPSK2025M | MINI SCREW | FOR FW BRACKET | 1 | | |
| | 84 | VKZ4434-001 | WASHER | FOR OIL CUT | 2 | | |
| | 85 | VKW4770-001 | T.U.SPRING | FOR T.U.BASE-LE | 2 | | |
| | 86 | SPSK2025M | MINI SCREW | FOR A.GEAR UNIT | 1 | | |
| | 87 | SPSK2025M | MINI SCREW | FOR HOLDER BASE | 3 | | |
| | 88 | REE1500X | E.RING | FOR HOLDER BASE | 1 | | |
| | 89 | SPSK2025M | MINI SCREW | FOR AUTO P.C.BO | 1 | | |
| | 90 | DPSP2005Z | SCREW | FOR HEAD P.C.BO | 1 | | |
| | 91 | SPSK2025M | MINI SCREW | FOR SWITCH P.C. | 1 | | |
| | 92 | VKL6342-001 | P.C.B.BRACKET | | 2 | | |
| | 93 | SDST2604Z | SCREW | | 2 | | |
| | 94 | VKL1276-00B | HOLD BASE ASS'Y | | 1 | | |
| | 95 | VKL2355-002 | CASSETTE HOLDER | | 1 | | |
| | 96 | VYSA1R3-030 | SPACER | | 1 | | |
| | 97 | VKL2351-00A | LIFTER ASS'Y | | 1 | | |
| | 98 | VKH3001-078 | FLANGE COLLAR | FOR LIFTER | 1 | | |
| | 99 | SPSJ1730M | MINI SCREW | FOR LIFTER | 1 | | |
| | 100 | VKL2353-00B | LIE SLID ASS'Y | | 1 | | |
| | 101 | VKS5049-001 | LOARDING RACK | | 1 | | |
| | 102 | SPSK2025M | MINI SCREW | FOR LOADING RAC | 2 | | |
| | 103 | VKH3000-132 | COLLAR | FOR R.SLIDER | 1 | | |
| | 104 | REE1500 | E.RING | FOR R.SLIDER | 1 | | |
| | 105 | VKS3335-00B | CASSETTE SLIDER | | 1 | | |
| | 106 | VKH5077-001 | C.SLIDER COLLAR | | 1 | | |
| | 107 | VKL3948-00A | LOADING LEVER | | 1 | | |
| | 108 | REE1500 | "E" WASHER | | 1 | | |
| | 109 | VKL3950-00B | EJECT LEVER | | 1 | | |
| | 110 | VKL6341-002 | LOCK ARM | | 1 | | |

BLOCK NO. M1MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | 111 | VKW4731-001 | EJ.LOCK SPRING | FOR EJ.LOCK ARM | 1 | | |
| | 112 | REE2000 | E.RING | FOR EJ.LOCK ARM | 1 | | |
| | 113 | VKS5050-001 | CHROME SW.ACT. | | 1 | | |
| | 114 | VKS5051-001 | IN.SW.ACTUATOR | | 1 | | |
| | 115 | VKS5052-003 | START S.ACT. | SWITCH ACTUATOR | 1 | | |
| | 120 | VKW3005-022 | TENSION SPRING | FOR START SW AC | 1 | | |
| | 121 | VKW4762-001 | EJECT SPRING | FOR EJ.LEV. ASS | 1 | | |
| | 122 | VYSA1R4-083 | SPACER | | 1 | | |
| | 123 | VYSA1R4-056 | SPACER | | 4 | | |
| | 124 | VYSH103-054 | SPACER | FOR R.SLIDER | 1 | | |
| | 125 | WFM214013 | WASHER | | 1 | | |
| | 126 | THIS DWG. | SPRING | FOR BACK TENSIO | 2 | | |
| A | | MCI5D3LA-SA1 | CAPSTAN MOTOR | CAPSTEN | 1 | | |

BLOCK NO. M2MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | 123 | VKZ4521-004 | SCREW | | 1 | | |
| | 124 | VND4411-001 | CAUTION LABEL | | 1 | | |
| | 125 | VYTA496-001T | DIN CAP | | 1 | | |
| | 126 | VYTA500-001 | PIN CAP | | 8 | | |
| | 127 | LPSP2606Z | SCREW | MECHA+CHASSIS | 2 | | |
| | 128 | SPST2605Z | SCREW | MECHA+MECHA BKT | 2 | | |
| | 129 | VYSA1R4-056 | SPACER | | 2 | | |
| | 130 | VKS5396-001 | LED HOLDER | | 1 | | |
| | 131 | VMZ0102-001 | INTER CONNECTOR | | 1 | | |
| | 132 | VYTT581-001 | SCREEN | | 1 | | |
| | 133 | VJK3554-001 | LCD LENS | | 1 | | |
| | 134 | VYTT590-002 | SEAL | | 1 | | |
| | 135 | VKM3570-001 | LCD CASE | | 1 | | |
| | 136 | VYSS1R4-034 | SPACER | | 1 | | |
| | 137 | VYTR442-001 | LAMP HOLDER | | 4 | | |
| | 138 | VYTS503-004 | INSULATOR | | 1 | | |
| | 139 | VYTS504-001 | INSULATOR(P) | | 1 | | |
| | 140 | VYSS1R5-032 | SPACER | R.BKT-MAIN PB | 1 | | |
| | 141 | VYSH108-018 | SPACER | FOR DOLBY BOARD | 1 | | |
| | 144 | VMA4397-002 | SHIELD PLATE | FOR TUNER PACK | 1 | | |
| | 150 | ZCKSCG10E-NPA | NOSE PIECE ASSY | | 1 | B,E,GI | |
| | | ZCKSCG10GR2-NPA | NOSE PIECE ASSY | FROM #1001- | 1 | G,GE | |
| | 151 | ZCKSCG10-REAR | REAR PANEL ASSY | | 1 | | |

# 11 Packing Illustration and Parts List

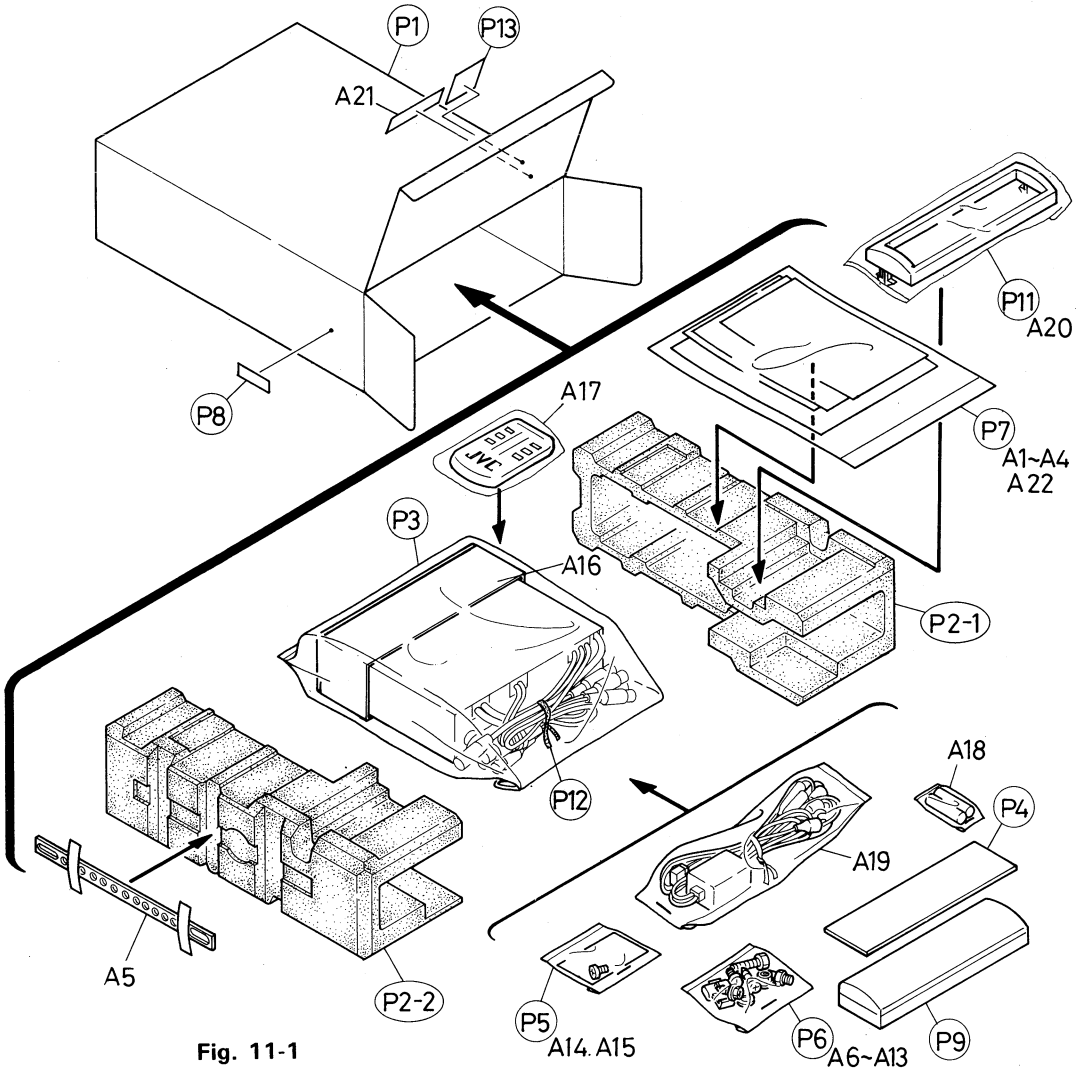



Fig. 11-1

## ● Packing Parts List

BLOCK NO. M3MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | A 1 | VNN3311-451 | INSTRUCTIONS | HOL/SWD/SPAIN | 1 | E | |
| | | VNN3311-471 | INSTRUCTIONS | | 1 | GI | |
| | | VNN3311-481 | INSTRUCTIONS | FINLAND | 1 | E | |
| | | VNN3311-212 | INSTRUCTIONS | | 1 | | |
| | A 2 | BT-20066A | WARRANTY CARD | | 1 | B | |
| | | BT20060 | WARRANTY CARD | | 1 | B | |
| | | BT-20114 | WARRANTY CARD | | 1 | G | |
| | A 3 | PU36158 | FTZ INF.SHEET | | 1 | G | |
| | A 4 | E43486-340B | SAFETY SHEET | | 1 | B | |
| | A 5 | VKL5460-001 | STAY | | 1 | | |
| | A 6 | SSSP5006Z | SCREW | | 4 | | |
| | A 7 | VKZ4027-002 | PLUG NUT | | 1 | | |
| | A 8 | VKH4871-001 | MOUNT BOLT | | 1 | | |
| | A 9 | VKZ4328-001 | LOCK NUT | | 1 | | |
| | A 10 | WNS5000Z | WASHER | | 1 | | |
| | A 11 | VKY4462-004 | SIDE SPRING | | 2 | | |
| | A 12 | SSSP4006Z | SCREW | | 4 | | |
| | A 13 | VJH4089-001 | HANDLE HOLDER | | 2 | | |
| | A 14 | SPSL2040M | MINI SCREW | | 1 | | |
| | A 15 | VND4410-001 | SHEET | | 1 | | |
| | A 16 | VKL3732-015 | MOUNTING SLEEVE | | 1 | | |
| | A 17 | JV-0062-11 | REMOCON UNIT | RM-RK10 | 1 | | |
| | A 18 | UM-4NJ-2P | BATTERY | | 2 | | |
| | A 19 | VMC0014-090 | 5P CORD ASS'Y | | 1 | | |
| | A 20 | VJD3881-001 | TRIM PLATE | | 1 | | |
| | A 21 | VND4418-001 | DYNAS STICKER | | 1 | | |
| | A 22 | VND3050-001 | IDENTITY CARD | | 1 | | |
| | A KIT | KSRX4307-SCREW1 | SCREW KIT | A6-A13 KIT | 1 | | |
| | B KIT | KSRX4307-SCREW2 | SCREW KIT | A14-A15 KIT | 1 | | |
| | P 1 | VPC3311-001 | CARTON | | 1 | | |
| | P 3 | VPE3005-066 | POLY BAG | FOR SET | 1 | | |
| | P 4 | VPK4231-014 | SPACER | | 1 | | |
| | P 5 | QPGA008-01205 | POLY BAG | | 1 | | |
| | P 6 | QPGA008-01205 | POLY BAG | FOR SCREW SET | 1 | | |
| | P 7 | QPGB017-02404 | POLY BAG | | 1 | | |
| | P 8 | VND3046-003 | SERIAL TICKET | | 1 | E | |
| | | VND3046-004 | SERIAL TICKET | | 1 | B | |
| | | VND3046-001 | SERIAL TICKET | | 1 | GI,GE | |
| | | VND3046-005 | SERIAL TICKET | | 1 | G | |
| | P 9 | VJB3034-001 | HARD CASE | | 1 | | |
| | P 11 | QPGA010-02505 | POLY.BAG | | 1 | | |
| | P 12 | Q04141H | WIRE CLAMP | | 1 | | |
| | P 13 | VND3071-042 | EAN CODE LABEL | | 1 | | |
| | P 2-1 | VPH1552-002 | CUSHION(L) | | 1 | | |
| | P 2-2 | VPH1553-002 | CUSHION(R) | | 1 | | |

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(No. 49142)

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